Parts Catalog for 21G 21GS CRAWLER LOADER

(S/N 13718-UP)

Also same as 19101 to 19451

ALLIS-CHALMERS

CONSTRUCTION MACHINERY DIVISION
SPRINGFIELD, ILLINOIS 62705

Printed in U.S.A.

FORM 0667981-5
REPLACES 634419

AVOID ACCIDENTS

MOST ACCIDENTS, WHETHER THEY OCCUR IN INDUSTRY, ON THE FARM, AT HOME OR ON THE HIGHWAY, ARE CAUSED BY THE FAILURE OF SOME INDIVIDUAL TO FOLLOW SIMPLE AND FUNDAMENTAL SAFETY RULES OR PRECAUTIONS. FOR THIS REASON MOST ACCIDENTS CAN BE PREVENTED BY RECOGNIZING THE REAL CAUSE AND DOING SOMETHING ABOUT IT BEFORE THE ACCIDENT OCCURS.

REGARDLESS OF THE CARE USED IN THE DESIGN AND CONSTRUCTION OF ANY TYPE OF EQUIPMENT THERE ARE MANY CONDITIONS THAT CANNOT BE COMPLETELY SAFEGUARDED AGAINST WITHOUT INTERFERING WITH REASONABLE ACCESSIBILITY AND EFFICIENT OPERATION.

A careful operator is the best insurance against an accident. The complete observance of one simple rule would prevent many thousand serious injuries each year. That rule is:

Never attempt to clean, oil or adjust a machine while it is in motion.

NATIONAL SAFETY COUNCIL

WARNING

ON MACHINES HAVING HYDRAULICALLY, MECHANICALLY, AND/OR CABLE CONTROLLED EQUIPMENT (SUCH AS SHOVELS, LOADERS, DOZERS, SCRAPERS, etc.) BE CERTAIN THE EQUIPMENT IS LOWERED TO THE GROUND BEFORE SERVICING, ADJUSTING AND/OR REPAIRING. IF IT IS NECESSARY TO HAVE THE HYDRAULICALLY, MECHANICALLY, AND/OR CABLE CONTROLLED EQUIPMENT PARTIALLY OR FULLY RAISED TO GAIN ACCESS TO CERTAIN ITEMS, BE SURE THE EQUIPMENT IS SUITABLY SUPPORTED BY MEANS OTHER THAN THE HYDRAULIC LIFT CYLINDERS, CABLE, AND/OR MECHANICAL DEVICES USED FOR CONTROLLING THE EQUIPMENT.

ADDITIONAL PUBLICATIONS AVAILABLE
FOR
MODELS 21G and 21GS
CRAWLER LOADERS
(Effective Loader serial No. 13718 and up)

(See NOTE below)

(Available in Foreign Language as indicated)

DESCRIPTION	SERIAL NO.	FORM NO. ENGLISH	ESPAÑOL (Spanish)	FRANÇAIS (French)	PORTUGUÊS (Portuguese)
Parts Catalogs					
Injection Pump	All	645322			
Operating Instructions and Field Maintenance Manual					
21G	All	634420	643598	643600	643599
For 21GS, also order		648627			
Service Manuals					
Electrical System	All	664045			
Engine, 21000 H prior to loader #14614		643980	645885	645887	645886
Engine, 21000 Mark II effective loader #14614		663850			
Engine Clutch, Torque Converter, Transmission, Bevel Gear, Drive Shaft and U-Joint	All	644559	649505	649507	649506
Final Drive	All	644980	645281	645283	645282
Fuel Injection Nozzles and Holders	All	657397			
Injection Pump	All	657399			
Service Tools	All	650850			
Steering Clutches and Brakes	All	645549	649443	649445	649444
Track Frames and Tracks (Undercarriage)	All	645550	650413	650415	650414
Track Shovel	All	641546	645287	645289	645288
Turbocharger	All	637740	647061	647063	647062

NOTE: Order from local ALLIS-CHALMERS Dealer

IMPORTANT

All parts listed herein, which have no specific usage indicated, are applicable to all models. Those parts which are used only on specific models are so indicated.

Attaching parts such as bolts, nuts, rivets, screws, washers, etc., are indented immediately following the parts which they attach.

Parts indicated with a square (□) are also available in packaged sets. Refer to section titled "PACKAGED PARTS".

The terms "right" and "left" used throughout this parts catalog are determined by facing the direction of forward travel.

The engine is mounted unconventionally with the flywheel toward the front of the machine, but all engine parts are designated in respect to the engine as it would be installed in a conventional machine with the flywheel to the rear.

INSTRUCTIONS FOR ORDERING PARTS

Order parts from the dealer covering the local territory.

ALWAYS GIVE THE MODEL AND SERIAL NUMBER OF MACHINE. IF PARTS ARE FOR AN ASSEMBLY WHICH HAS A MODEL AND/OR SERIAL NUMBER (SUCH AS ENGINE ASSEMBLY, PUMP ASSEMBLY), ALSO INCLUDE THIS INFORMATION.

To obtain parts promptly, give part name and part number.

Give post office address, town, county and state where parts are to be shipped. Also specify whether material is to be shipped by freight, express or parcel post.

Confirm all telephone or telegraph orders in writing.

Parts for standard motor accessories such as generators and starting motors should be ordered from authorized Service Stations maintained by manufacturers of these units throughout the country.

No credit will be allowed on parts unless they are returned to the dealer from whom they were purchased; from there they will be returned, at the customer's expense, to the factory for inspection.

Unless claims for shortages or errors are made immediately upon receipt of goods, they will not be considered.

When broken goods are received, a full description of the damage should be made by the carrier agent on the freight bill. If this description is insisted upon, full damage can always be collected from the transportation company.

No responsibility is assumed for delay or damage to merchandise while in transit. Our responsibility ceases upon delivery of shipment to the transportation company from whom a receipt is received showing that shipment was in good condition when delivered to them; therefore, claims (if any) should be filed with the transportation company and not with Allis-Chalmers.

The right is reserved to change the construction or material of any parts where it seems desirable to do so without incurring the obligation of installing such changes on units already delivered.

The information contained herein is general in nature and is not intended for specific application purposes. Allis-Chalmers reserves the right to make changes in specifications shown herein or add improvements at any time without notice or obligation.

MODEL IDENTIFICATION

The symbol listed below is stamped in front of the model serial number on each unit.

MODEL SYMBOL	ENGINE MODEL		DESCRIPTION
	Prior to Loader #14614	Effective Loader #14614	
21G	21000 H	21000 Mark II	Diesel engine driven crawler loader
21GS	21000 H	21000 Mark II	Diesel engine driven crawler loader, equipped for steel mill high-temperature application

RECORD YOUR SERIAL NUMBERS BELOW

LOADER SERIAL NO. _____

ENGINE SERIAL NO. _____

_____

_____

_____

_____

_____

SERIAL NUMBER LOCATIONS

LOADER SERIAL NO.	On steering clutch housing at the upper right hand corner of the rear face and vertically on the right hand side of the rear edge.
ENGINE SERIAL NO.	On plate attached to the left hand side of the cylinder block near the rear end. Also on small plate attached to the cowl.

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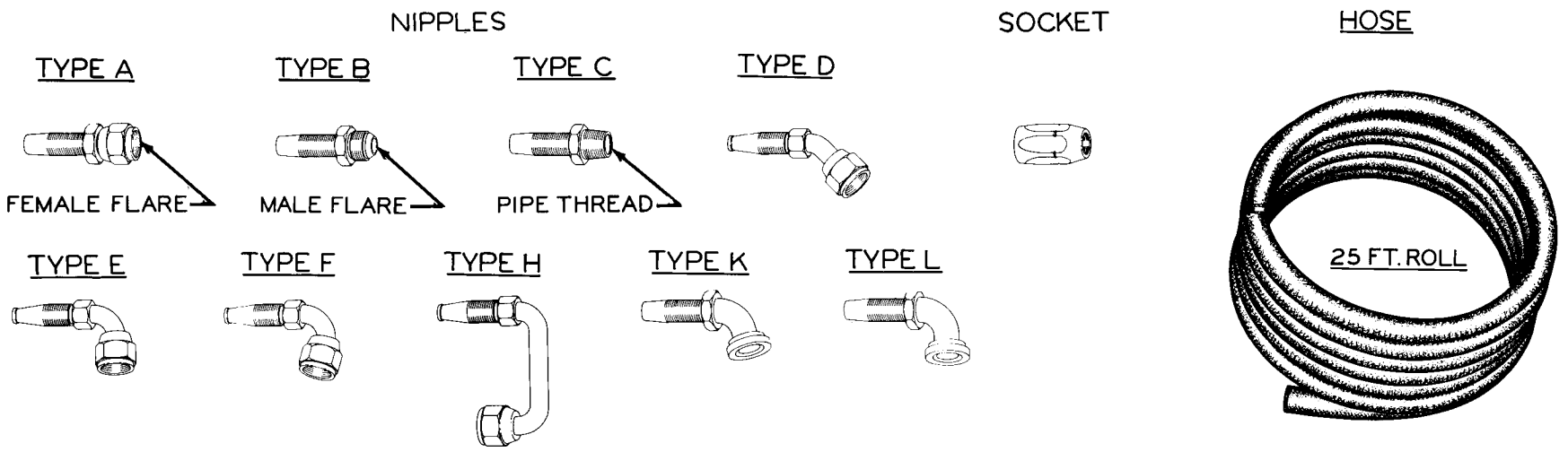


HOSE PARTS

NOTE: Refer to right hand column for identity of interchangeable crimped-type hose (fittings not re-usable). Assembly number shown in left hand column indicates available replacement hose assembly with re-usable components; where no assembly number is listed, hose assembly is not available from factory but may be constructed in the field from data indicated.

HOSE ASSEMBLY NO. (See NOTE)	BULK HOSE (25' roll)	HOSE LENGTH (inches)	NIPPLE (#1 end)			NIPPLE (#2 end)			SOCKET (both ends)	NIPPLE FLANGE		CRIMPED-TYPE HOSE (See NOTE)
			Including SOCKET	NIPPLE only	Type	Including SOCKET	NIPPLE only	Type		Part No.	X Dim	Part No.
626628	920794	14-1/2		641707	E		641707	E	920972			
4386238	919821	28-1/4		921225	C		920513	E	919820			
4386770	920736	18		922406	C		920514	E	920509			
4386771	920736	22-1/8		920512	E		922207	H	920509			
4386772	919821	23-1/4		920513	E		922208	H	919820			
4386773	922045	11-3/4		922044	E		922044	E	922042			
4386774	919821	14-7/8		922221	E		922372	F	919820			
------	919196	31-5/8	920847	920301	A	920855	919144	B	919143			642450
------	919196	54	920855	919144	B	920862	919194	E	919143			642451

------	919217	37-5/8	920849	920302	A	920879	919159	D	919075			642481
------	919217	63-1/4	920849	920302	A	920864	919082	E	919075			642485
------	919217	71-1/4	920849	920302	A	920864	919082	E	919075			642487
------	919217	60	920849	920302	A	920864	919082	E	919075			642494
------	920728	71-3/4	921033	921034	A	920868	920144	E	919282			642515
------	919217	88-3/4	920849	920302	A	920864	919082	E	919075			642517
------	919196	48-1/8	920847	920301	A	920862	919194	E	919143			643723
------	919196	46-1/4	920855	919144	B	920862	919194	E	919143			644423
------	919196	64-1/2	920855	919144	B	920869	919253	E	919143			644424
------	920732	22-1/4		922141	L short		922151	L long	920569			644449
------	920732	36-3/4		922141	L		922141	L	920569			644450
------	920222	24-5/8	921033	921034	A	920875	920232	E	919282			644451
------	920732	20-3/4		921120	E		921120	E	920569			644452
------	919155	37-1/2	920849	920302	A	920864	919082	E	919075			644453
------	920728	75	921033	921034	A	920875	920232	E	919282			644474
------	920222	32	921033	921034	A	921033	921034	A	919282			644475
------	919217	44-3/4	920849	920302	A	920864	919082	E	919075			644506
------	919155	117-3/4	920849	920302	A	920864	919082	E	919075			644510
------	919156	111	920850	920303	A	920865	919081	E	919076			644511
------	919156	9	920865	919081	E		919175	F	919076			644603
------	919156	9	920865	919081	E		919175	F	919076			644604
------	920221	121	920852	920344	A	920867	919277	E	919281			644607
------	920221	16-3/4	920867	919277	E	920867	919277	E	919281			644608
------	920221	112	920852	920344	A	920882	919278	D	919281			644609
------	919155	42-3/4	920864	919082	E short	920871	919157	E long	919075			644665
------	920222	65	920868	920144	E		922505	L	919282			644905
------	920222	155	921033	921034	A		922505	L	919282			644906
------	920222	61-3/8	921033	921034	A	921033	921034	A	919282			644931
------	920221	19-5/8	920882	919278	D	920882	919278	D	919281			644968
------	919218	14-3/8	920850	920303	A	920880	919254	D	919076			645074
------	920795	42-3/8	920945	922831	A	920928	920970	C	920973			646220
------	920794	6-1/2	921020	922830	A	921020	922830	A	920972			646224

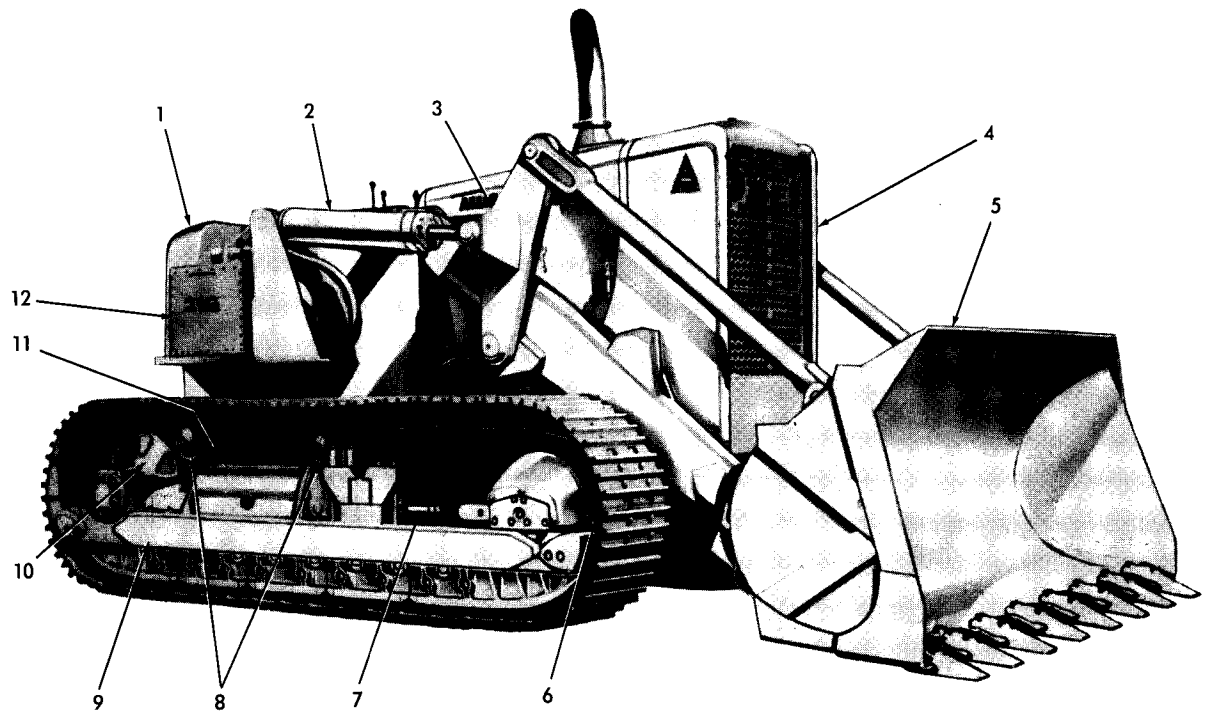
------	920795	66-3/8		922600	B	920935	921304	B	920973			646225
------	920795	67-5/8	920945	922831	A		922600	B	920973			646226
------	920795	26-3/8	920945	922831	A		922600	B	920973			646227
------	920795	20-5/8		922600	B	920928	920970	C	920973			646228
------	920983	28-5/8		922550	B		922909	K	920987			646229
------	920221	23	920882	919278	D	920867	919277	E	919281			647414
------	919155	117-1/8	920849	920302	A	920849	920302	A	919075			648239
------	919218	36	920880	919254	D	920865	919081	E	919076			648631
------	919218	54	920880	919254	D	920865	919081	E	919076			648632
------	919218	77-1/2	920880	919254	D	920865	919081	E	919076			648634
------	919218	59	920880	919254	D		919175	F	919076			648635
------	919218	51-1/2	920880	919254	D	920865	919081	E	919076			648637
------	919218	31	920880	919254	D	920880	919254	D	919076			648645
=-----	920222	60	921033	921034	A	920868	920144	E	919282			648653
------	920221	7-5/8	920867	919277	E	920852	920344	A	919281			648793
------	920222	58-3/8	921033	921034	A	920868	920144	E	919282			648968
------	920222	141-3/4	921033	921034	A	920798	921495	D	919282			648969
------	920728	66	921033	921034	A	920875	920232	E	919282			651962
------	920221	23-5/8	920852	920344	A	920867	919277	E	919281			652015
------	919156	108-5/16	920865	919081	E	920865	919081	E	919076			654457
------	919155	115	920864	919082	E	920864	919082	E	919075			654458
------	919155	33	920864	919082	E short	920871	919157	E long	919075			655612
------	919196	81	920855	919144	B	920869	919253	E	919143			655613
------	920222	20-1/8	921033	921034	A	921033	921034	A	919282			655614
------	920222	43-5/8	921033	921034	A	912033	921034	A	919282			655615
------	920222	65-1/8	921033	921034	A	921033	921034	A	919282			656476
------	920221	14-5/8	920882	919278	D	920882	919278	D	919281			658607
------	919155	12-7/8	920849	920302	A	920864	919082	E	919075			659546
------	919155	20-1/2	920849	920302	A	920849	920302	A	919075			659547
------	919155	36-1/4	920849	920302	A	920864	919082	E	919075			661139
------	920222	95	921033	921034	A	920868	920144	E	919282			661140

PACKAGED PARTS

PACKAGE NO.		DESCRIPTION
------		CLUTCH KIT, over-running, torque converter (See page 124)
------		ELEMENT KIT, filter and breather (See page 361)
4391802		GASKET KIT, cylinder head
	8	4254873 WASHER, rocker cover capscrew
	8	4255956 SLEEVE, fuel line
	1	4361551 GASKET, air inlet elbow
	1	4362458 GASKET, water manifold cover
	6	4376483 GASKET, water manifold
	1	4376520 GASKET, thermostat cover
	6	4378031 GASKET, injection nozzle
	1	4386137 GASKET, water by-pass tube
	12	4387697 GASKET, intake and exhaust manifold
	2	4389960 GASKET, cylinder head lower cover
	2	4389961 GASKET, rocker cover
	2	4390170 GASKET ASSY., cylinder head
	1	4391707 GASKET, air inlet elbow (Discard. Not for 21G)
	1	4392279 GASKET, water manifold connecting
4391603		GASKET KIT, intermediate, engine cylinder block (Does not include cylinder head or oil pan gaskets)
	2	667252 GASKET, oil drain plug (Only one (1) required)
	8	923379 O-RING, water tubes (Units with 21000H engines only)
	8	923645 O-RING, injection line connectors
	2	923651 O-RING, bonnet tube
	2	923810 O-RING, flywheel housing dowel
	1	923935 O-RING, water pump body
	12	925612 O-RING, water inlet manifold
	2	4113897 GASKET, regulating valve nut (Discard - Not used)
	4	4119937 GASKET, plugging capscrews
	5	4255511 O-RING, heat exchanger and oil filter (Discard. Not used)
	2	4255513 O-RING (Discard. Not used)
	12	4255631 O-RING, oil cooler and oil filter
	4	4255665 O-RING, injection pump bracket
	2	4255781 O-RING, heat exchanger elbows (Units with 21000-Mark II engine only)
	1	4255898 RING, sealing, flywheel housing
	1	4255904 RING, sealing, flywheel housing
	1	4255912 O-RING, flywheel to crankshaft
	1	4310257 GASKET, oil filler pipe
	1	4336897 RING, sealing, flywheel housing
	1	4361740 GASKET, water pump idler support
	1	4367090 GASKET, tachometer hole nut
	1	4371027 GASKET, gear housing hole cover
	2	4371160 GASKET, heat exchanger (Only one (1) required)
	1	4371289 GASKET, oil pan cover
	3	4371345 GASKET, oil lines (Units with 21000 H engine only)
	1	4371742 GASKET (Discard. Not used)
	1	4376398 GASKET, water pump
	1	4376603 GASKET, accessory pump
	1	4376609 GASKET, timing gear housing cover
	7	4376749 WASHER, push rod cover capscrew
	2	4377120 GASKET, push rod cover
	2	4378112 GASKET, lower water by-pass tube
	1	4379070 SEAL, oil pan
	1	4386223 GASKET, heat exchanger bonnet (Discard. Not used)
	1	4386495 GASKET, water and oil manifold, lower
	1	4386856 GASKET, heat exchanger (Early units only)
	1	4389291 GASKET, water and oil manifold, upper
	1	4389676 GASKET, heat exchanger bonnet

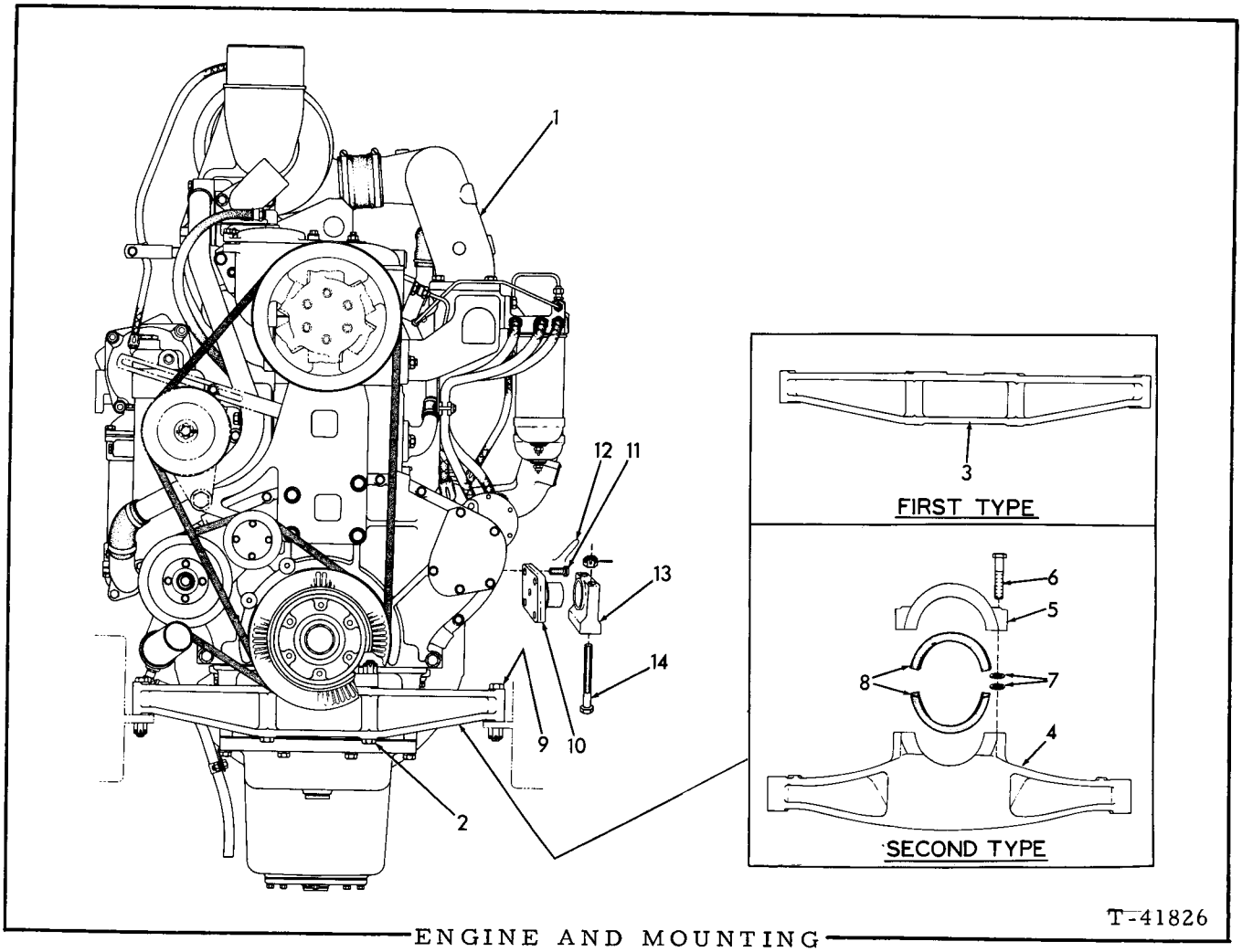
(Continued)

PACKAGE NO.	DESCRIPTION
4391603	GASKET KIT, intermediate, engine cylinder block (Does not include cylinder head or oil pan gaskets)(Continued)
	1 4389678 GASKET, heat exchanger adaptor
	3 4389782 GASKET, oil lines (Units with 21000-Mark II engine only)
	1 4390432 GASKET, timing hole cover
	1 4660423 GASKET, oil pump discharge tube
	1 4660492 GASKET, timing gear housing
------	GASKET KIT, turbocharger mounting (See TURBOCHARGER)
4391490	PISTON AND SLEEVE KIT (If making replacement on 21000 H engines, full set is required)
	2 4253749 RETAINER, piston pin
	1 4379178 O-RING, cylinder sleeve (black)
	2 4385485 O-RING, cylinder sleeve (red)
	1 4390175 PIN, piston
	1 4391473 SLEEVE, cylinder
	1 4391487 PISTON
	1 4391489 RING SET, piston
	1 ------- INSTRUCTION SHEET 4385633
------	REPAIR KIT, lift and dump cylinder (See pages 338 and 342)
------	RING SET, piston (See PISTON AND CONNECTING ROD)
------	RING SET, snap, shovel hydraulic pump (See page 346)
------	SEAL KITS (See FINAL DRIVE section, TRACK CARRIER ROLLER, TRACK IDLER and TRACK ROLLERS)
------	SEAL KIT, shovel hydraulic pump (See page 346)



21G CRAWLER LOADER

1. Fuel Tank
2. Dump Cylinder
3. Bucket Linkage
4. Radiator Guard
5. General Purpose Bucket
6. Track Idler
7. Hydraulic Track Adjuster
8. Track Carrier Rollers
9. Track Frame
10. Sprocket
11. Track Release
12. Hydraulic Tank



ENGINE AND MOUNTING

* Used prior to loader serial No. 14614
** Effective with loader serial No. 14614

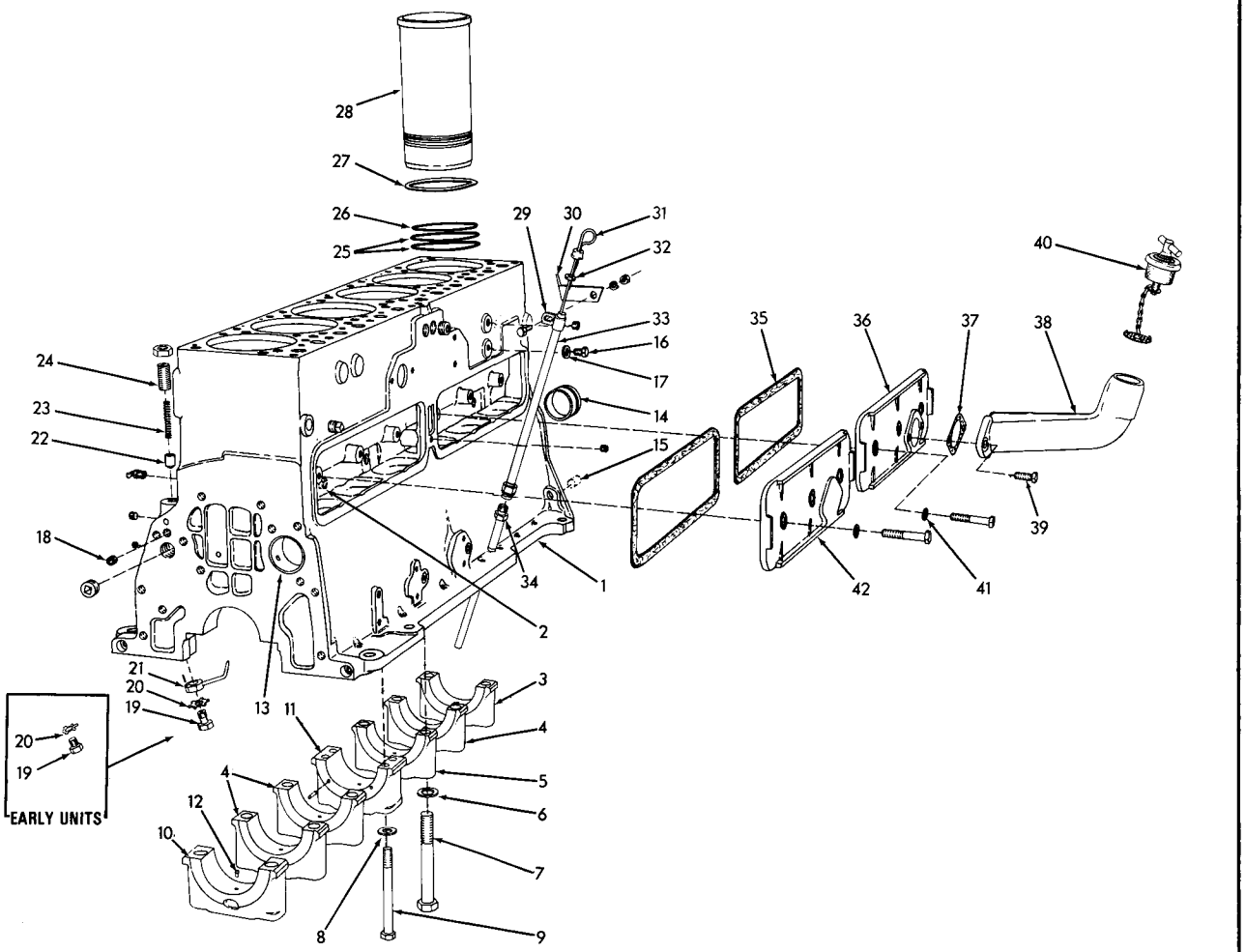
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	------	1	-	ENGINE ASSY. (21000H)(Order ENGINE ASSY 4390864 and item 15.)
	4390864	-	1	ENGINE ASSY. (21000-Mark II)(Includes oil filters, oil coolers, water filter, fuel filter and turbocharger but does not include air cleaner, fan, generator (21G), alternator (21GS) or starter)
2	099061	2	-	CAPSCREW, front mounting (5/8" NF x 5-3/4")(Original equipment
	913280	2	-	NUT, high, slotted, 5/8"NF
	900806	2	-	PIN, cotter, 1/8" x 1"
	070935	2	-	CAPSCREW, front mounting (5/8"NC x 5")(Used with service replacement mounting bracket only)
	070836	2	-	LOCK, capscrew
3	080809	1	-	HANGER, engine supporting, front end
4	655452	-	1	HANGER, engine supporting, front end (Includes item 5)
5	------	-	1	CAP, engine hanger (Not serviced separately)
6	924694	-	2	SCREW, flanged, hex-hd., 1/2"NC x 3"

(Continued)

ENGINE AND MOUNTING (Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
7	916009	-	14	WASHER, shimming (1/32" thick. Use as required)
8	4336491	-	2	LINER, engine supporting hanger
9	099062	2	2	CAPSCREW, engine hanger (drilled-end, 5/8" NF x 4")
	913280	2	2	NUT, high, slotted, 5/8" NF
	900806	2	2	PIN, cotter, 1/8" x 1"
10	631774	2	2	TRUNNION, rear mounting
11	665891	8	8	CAPSCREW, drilled-hd., 5/8" NC x 1-1/4"
12	023633	4	4	WIRE, locking, 1/16" x 12"
13	631773	2	2	BRACKET, engine supporting, rear
14	630773	4	4	CAPSCREW, drilled-end, 3/4" NF x 7"
	910879	4	4	NUT, high, slotted, 3/4" NF
	900808	4	4	PIN, cotter, 1/8" x 1-1/2"
15	661647	1	-	INSTALLATION KIT, engine

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



CYLINDER BLOCK T-37202

ITEM	PART NO.	QTY.		DESCRIPTION
1	4390809	1		BLOCK ASSEMBLY, cylinder (Includes items 2 thru 20 also hardware indented below)
	919840	3		PLUG, pipe, hex-hd., 1/4"NPT
	917673	3		PLUG, pipe, hex-socket, 1/8"NPT
	918850	3		PLUG, pipe, hex-socket, 1/4"NPT
	918887	1		PLUG, pipe, hex-socket, 3/8"NPT
	918851	3		PLUG, pipe, hex-socket, 3/4"NPT
	912415	1		COCK, drain, 1/4"NPT
2	------	4		DOWEL, valve lifter bracket (See VALVE OPERATING MECHANISM))
3	4389235	1	*	CAP, main bearing, rear
4	4389232	3	*	CAP, main bearing, intermediate
5	4389234	1	*	CAP, main bearing, intermediate (No. 5)
6	4389911	12		WASHER, main bearing capscrew

* Replacement bearing caps are semi-finished and must be line-bored after installing

(Continued)

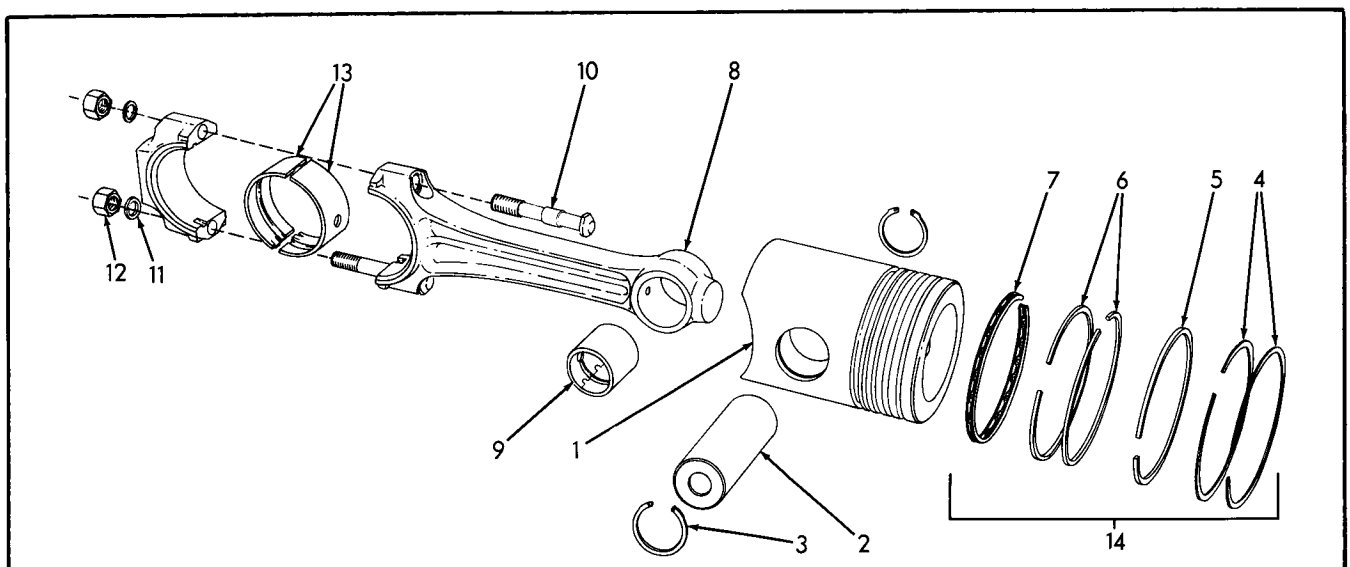
ITEM	PART NO.	QTY.		DESCRIPTION	
7	4389924	12		CAPSCREW, main bearing cap (7/8" diam.)	
8	4391160	4		WASHER, center main bearing capscrew	
9	4389923	4		CAPSCREW, center main bearing cap (5/8" diam.)	
10	4389231	1	*	CAP, main bearing, front	
11	4389233	1	*	CAP, main bearing, center	
11	------	4		PIN, dowel, thrust flange (See CRANKSHAFT)	
12	4389292	7		PIN, dowel, main bearing (step type)	
13	4660389	1		BEARING, camshaft, front	
13	4660440	2		BEARING, camshaft, intermediate	
14	4660389	1		BEARING, camshaft, rear	
15	------	2		PIN, dowel, flywheel housing (See FLYWHEEL HOUSING)	
16	919229	3		CAPSCREW, hole plugging (1/2"NC x 1/2")	
17	4119937	3	□	GASKET, plugging capscrew	
18	4389943	1		PLUG, restriction, oil by-pass	
19	924822	6		CAPSCREW, plugging, oil gallery (21000H engines)	
	4386262	6		SCREW, piston cooling jet (21000 - Mark II engines)	
20	4373619	6		LOCKWASHER, plugging capscrew (21000H engines)	
20	4705801	6		LOCKWASHER, piston cooling jet screw (21000-MarkII engines)	
21	4390766	3		JET ASSEMBLY, piston cooling, right hand (Includes dowel)	21000-Mark II engines
21	4390767	3		JET ASSEMBLY, piston cooling, left hand (Includes dowel)	21000-Mark II engines
22	4500230	1		PISTON, oil pressure regulating valve	
23	4660358	1		SPRING, oil pressure regulating valve	
24	4389058	1		SCREW, oil pressure regulating valve	
	910847	1		NUT, jam, 3/4"NF	
25	4385485	12	□	O-RING, cylinder sleeve, lower groove (red)	
26	4379178	6	□	O-RING, cylinder sleeve, upper groove (black)	
27	4368204	-		SHIM, cylinder sleeve (.005" thick)	Use as required when remachining block
27	4368205	-		SHIM, cylinder sleeve (.010" thick)	Use as required when remachining block
27	4368206	-		SHIM, cylinder sleeve (.015" thick)	Use as required when remachining block
27	4369002	-		SHIM, cylinder sleeve (.020" thick)	Use as required when remachining block

* Replacement bearing caps are semi-finished and must be line-bored after installing

(Continued)

CYLINDER BLOCK (Continued)

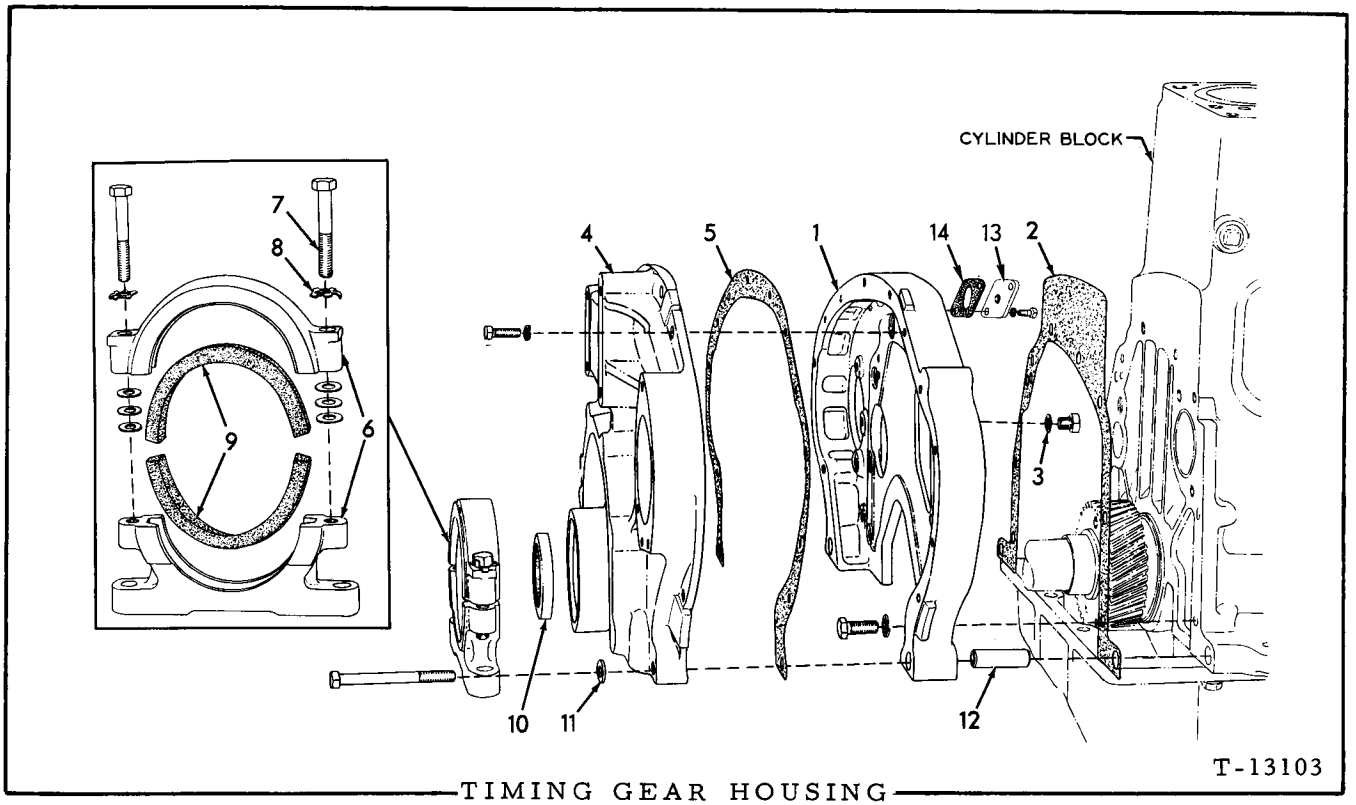
ITEM	PART NO.	QTY.	DESCRIPTION
28	4391473	6	□ SLEEVE, cylinder
29	094527	1	CLIP, supporting, oil level gauge tube
	036032	1	CAPSCREW, 3/8"NF x 3/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
30	645160	1	ANGLE, supporting, oil level gauge tube
31	645172	1	GAUGE ASSEMBLY, oil level (Includes item 32)
32	4506607	1	SEAL, oil level gauge
33	645173	1	TUBE, oil level gauge
	919068	1	NUT, flare type, 1/2" tube
	919070	1	SLEEVE, flare type, 1/2" tube
34	645177	1	ADAPTOR, oil level gauge
35	4377120	2	□ GASKET, push rod cover
36	4389810	1	COVER, push rod, rear
	916316	3	CAPSCREW, 1/2"NC x 2-1/2"
37	4310257	1	□ GASKET, oil filler pipe
38	4389040	1	ELBOW, oil filler
39	4379198	2	CAPSCREW, Nylok, 1/2"NC x 1-3/8"
40	4354449	1	CLOSURE ASSEMBLY, oil filler (Serviced only as a unit)
41	4376749	7	□ WASHER, push rod cover capscrew
42	4389809	1	COVER, push rod, front
	916316	2	CAPSCREW, 1/2"NC x 2-1/2"
	916317	1	CAPSCREW, 1/2"NC x 2-3/4"



PISTON AND CONNECTING ROD

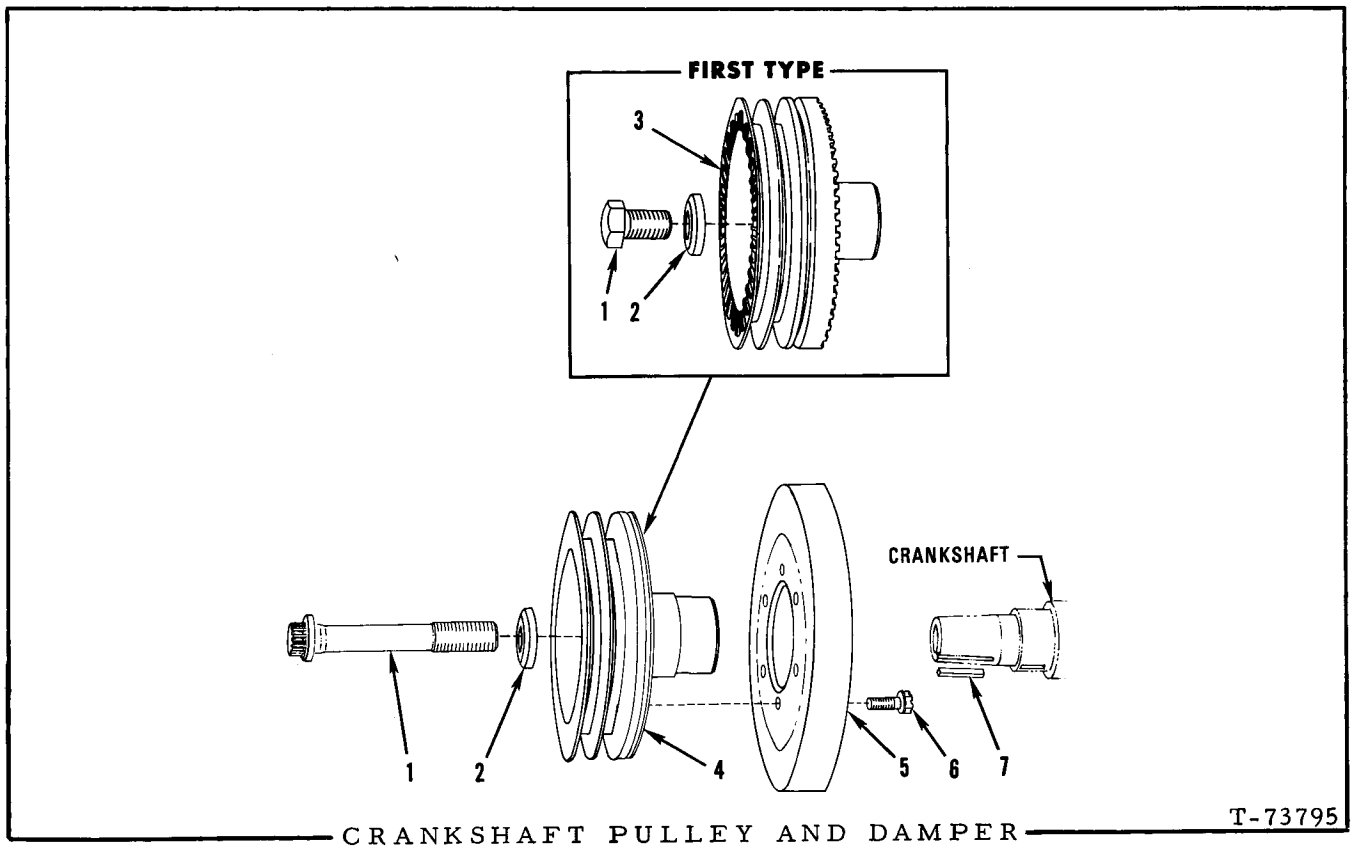
* Engines prior to serial No. 21-06599 excluding No. 21-06592
** Engines serial No. 21-06599 and up including No. 21-06592

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	4389889	6	-	PISTON (5-ring)(If full set required order PISTON 4391487 and RING SET 4391489)
	4391487	-	6	□PISTON (4-ring)
2	4376792	6	6	PIN, piston (1" hole)(21000H engines)
	4390175	-	6	□PIN, piston (3/4" hole)(21000-Mark II engines)
3	4253749	12	12	□RETAINER, piston pin
4	------	12	-	RING, shielding (top groove) — Order item 14
5	------	6	6	RING, compression (#1) — Order item 14
6	------	12	12	RING, compression (#2 and #3) — Order item 14
7	------	6	6	RING, oil control — Order item 14
8	4390068	6	6	ROD ASSEMBLY, connecting (Includes items 9 thru 12)
9	4376986	6	6	BUSHING, connecting rod
10	4376804	12	-	BOLT, connecting rod (4-1/8" long)(Used prior to engine #21-06755)
	4388142	-	12	BOLT, connecting rod (4-1/4" long)(Effective with engine #21-06755)
11	4388146	-	12	WASHER, connecting rod bolt (Effective with engine #21-06755)
12	4390011	12	12	NUT, connecting rod bolt
13	4390698	12	12	BEARING, connecting rod (standard size)
	4391156	12	12	BEARING, connecting rod (.010" undersize)
	4386374	12	12	BEARING, connecting rod (.020" undersize)
	4386375	12	12	BEARING, connecting rod (.030" undersize)
	4391159	12	12	BEARING, connecting rod (.040" undersize)
14	4388358	6	-	RING SET (Consists of items 4 thru 7)
	4391489	-	6	□RING SET (Consists of items 5 thru 7)



TIMING GEAR HOUSING

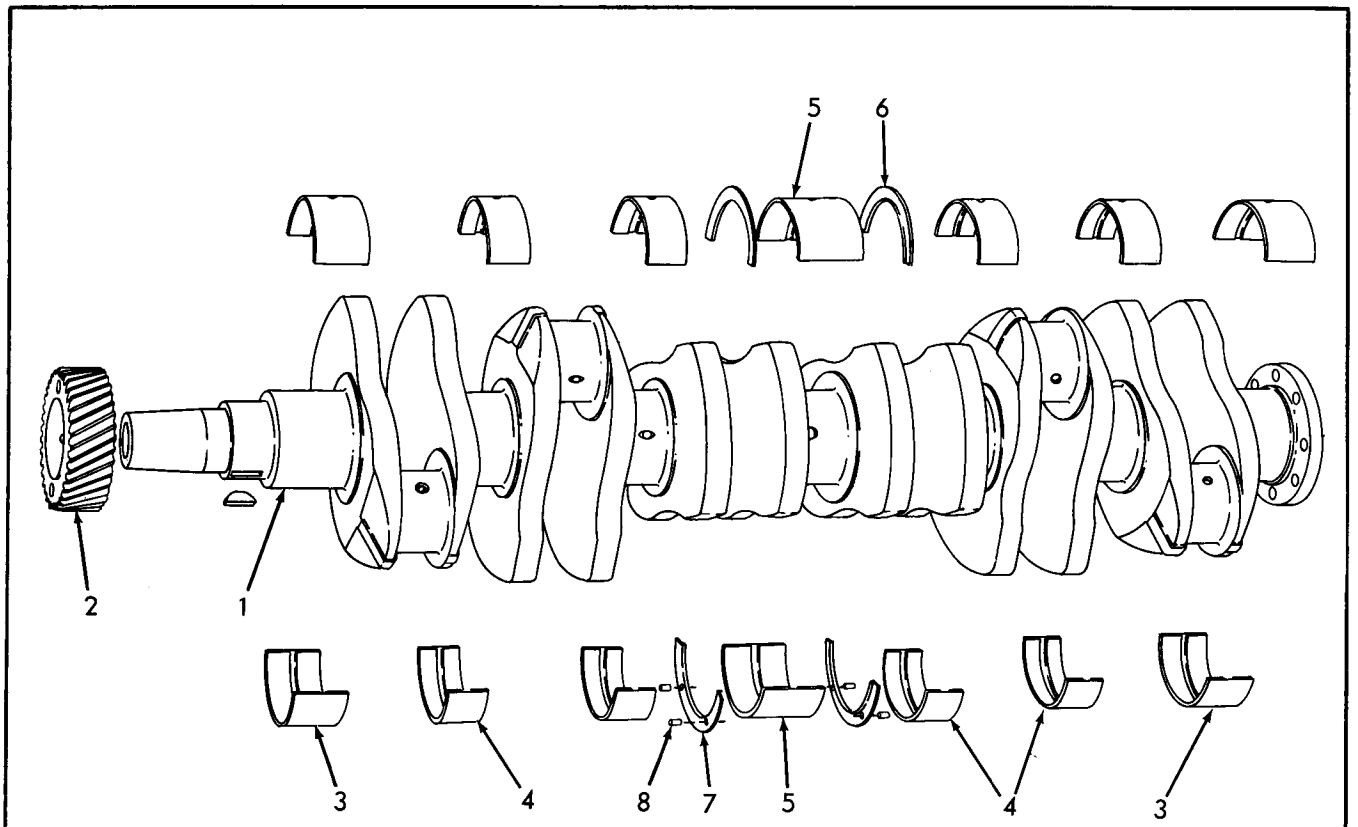
ITEM	PART NO.	QTY.	DESCRIPTION	
1	4389784	1	HOUSING	
	916311	8	CAPSCREW, 1/2"NC x 1-1/4"	
	904208	8	LOCKWASHER, 1/2"	
2	4660492	1	□GASKET, gear housing	
3	4119937	1	□GASKET, plugging capscrew	
	919229	1	CAPSCREW, 1/2"NC x 1/2"	
4	4387723	1	COVER, timing gear housing	
	916321	2	CAPSCREW, 1/2"NC x 4-1/2"	
	919224	7	CAPSCREW, 3/8"NC x 1-1/8"	
	904206	7	LOCKWASHER, 3/8"	
5	4376609	1	□GASKET, gear housing cover	
6	4390503	1	BRACKET, engine mounting (Includes cap)(When making first replacement also order 2 each CAPSCREW 922510, CAPSCREW 070935 and LOCK 070836)	Used prior to loader #14614
	916009	10	WASHER, plain (1/32" thick. Use as req'd)	
7	4254891	2	CAPSCREW, 1/2"NC x 2-1/2" (Original equipment)	
	922510	2	CAPSCREW, 1/2"NC x 2-3/4" (Service replacement)	
8	4252682	2	LOCKWASHER	
9	4336491	2	LINER, engine mounting bracket	
10	4027416	1	SEAL, oil, crankshaft	
11	4371445	2	WASHER, plain, housing cover capscrew (1/2" hole)	
12	4371444	2	DOWEL, hollow, gear housing	
13	4390837	1	COVER, gear housing	Engines #21-09671 and up
	915408	2	CAPSCREW, 3/8"NC x 3/4"	
	904206	2	LOCKWASHER, 3/8"	
14	4371027	1	GASKET, gear housing cover	



CRANKSHAFT PULLEY AND DAMPER

* Model 21G prior to engine serial No. 21-06538
** Model 21GS; also Model 21G engine serial No. 21-06538 and up

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION	
1	4390838	1	1	BOLT, crankshaft pulley (1-1/4"NF x 2")(Used prior to engine #21-08932)	
	4391308	-	1	SCREW, crankshaft pulley (3/4"NF x 7-1/4")(Effective with engine #21-08932)	
2	4371503	1	1	WASHER, crankshaft pulley bolt (1-1/4" hole)(Used prior to engine #21-08932)	
	4391649	-	1	WASHER, crankshaft pulley bolt (3/4" hole)(Effective with engine #21-08932)	
3	------	1	-	PULLEY, crankshaft (Includes integral damper)(Order items 4 thru 6; also 1 CAPSCREW 4388254, 1 PULLEY 4388240, 1 PULLEY 4388253, 1 BELT 4388326 and 4 BOLTS 4751643.	
4	4388244	-	1	PULLEY, crankshaft (keywayed)	
5	4388217	-	1	DAMPER, crankshaft pulley	
6	4391022	-	6	BOLT, attaching	
7	4362310	1	1	KEY, crankshaft pulley (5/16" x 5/16" x 2-1/4")(For use with keywayed pulley)	Early units only
	4391230	-	1	KEY, crankshaft filler (5/32" x 5/16" x 2-1/4)(For use with non-keywayed pulley	Early units only



CRANKSHAFT T-37191

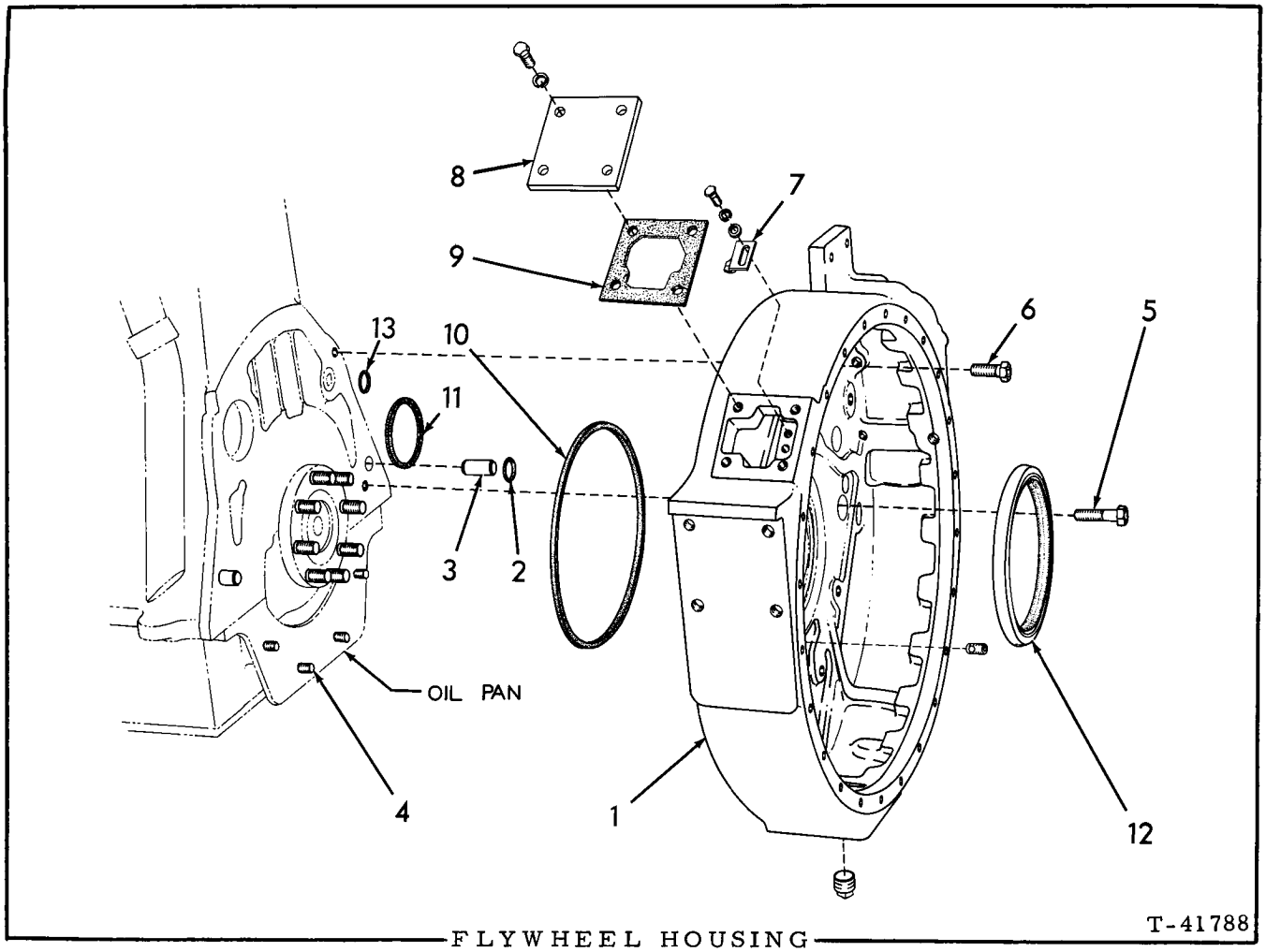
* Model 21G prior to engine serial No. 21-06538
** Model 21GS; also Model 21G engine serial No. 21-06538 and up

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	4391573	1	1	CRANKSHAFT (Engines prior to #21-09247)(If for engines prior to #21-08932 also order 4391308 SCREW and 4391649 WASHER)
	917673	6	6	PLUG, pipe, hex-socket, 1/8"NPT (Early units)
	4392106	-	1	CRANKSHAFT (Effective with engine #21-09247)
2	4389052	1	1	GEAR, crankshaft
	905129	1	1	KEY, #D woodruff, 5/16" x 1-1/4"
3	4387031	4	4	BEARING, front and rear main (standard size)
	4386480	4	4	BEARING, front and rear main (.010" undersize)
	4386481	4	4	BEARING, front and rear main (.020" undersize)
	4386482	4	4	BEARING, front and rear main (.030" undersize)
	4386483	4	4	BEARING, front and rear main (.040" undersize)

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
4	4387032	8	8	BEARING, intermediate main (standard size)
	4386473	8	8	BEARING, intermediate main (.010" undersize)
	4386474	8	8	BEARING, intermediate main (.020" undersize)
	4386475	8	8	BEARING, intermediate main (.030" undersize)
	4386476	8	8	BEARING, intermediate main (.040" undersize)
5	4387033	2	2	BEARING, center main (standard size)
	4386469	2	2	BEARING, center main (.010" undersize)
	4386466	2	2	BEARING, center main (.020" undersize)
	4386467	2	2	BEARING, center main (.030" undersize)
	4386468	2	2	BEARING, center main (.040" undersize)
6	4386360	2	2	FLANGE, thrust, center main, upper (standard size)
	4386456	2	2	FLANGE, thrust, center main, upper (.005" oversize)
	4386457	2	2	FLANGE, thrust, center main, upper (.010" oversize)
	4386458	2	2	FLANGE, thrust, center main, upper (.015" oversize)
7	4386359	2	2	FLANGE, thrust, center main, lower (standard size)
	4386453	2	2	FLANGE, thrust, center main, lower (.005" oversize)
	4386454	2	2	FLANGE, thrust, center main, lower (.010" oversize)
	4386455	2	2	FLANGE, thrust, center main, lower (.015" oversize)
8	4250898	4	4	PIN, dowel, thrust flange

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



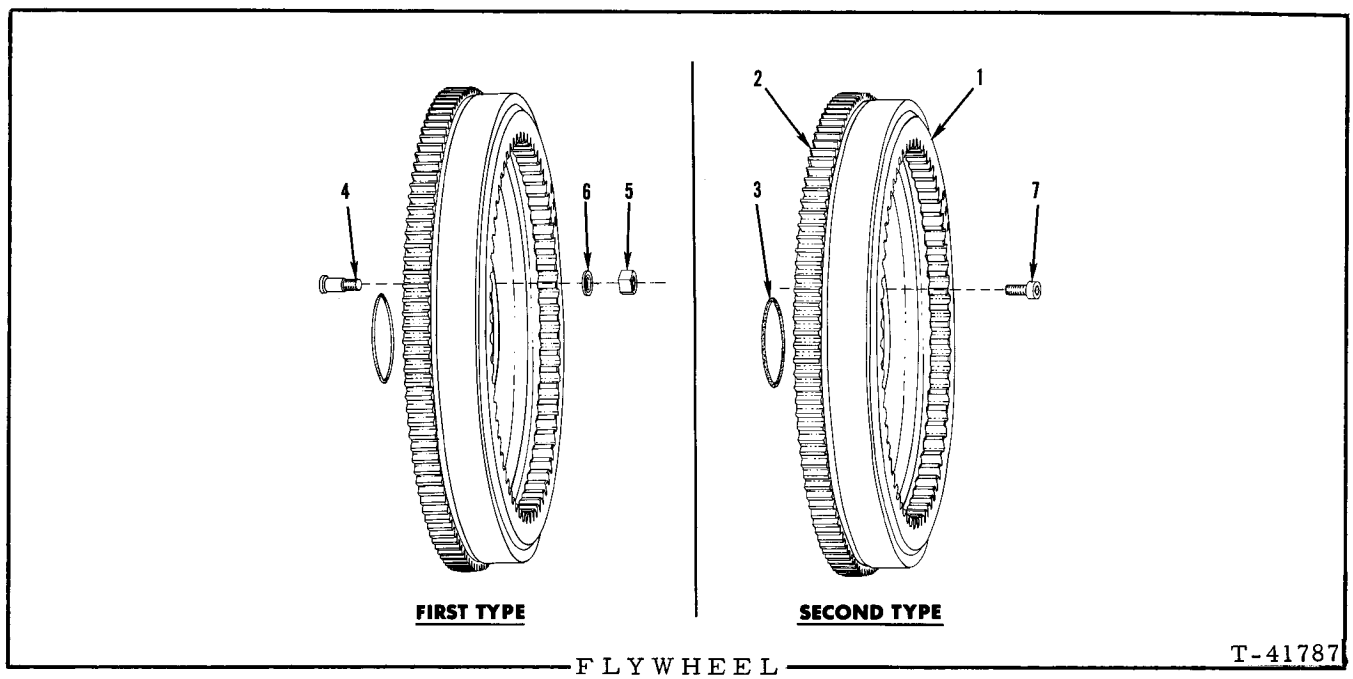
FLYWHEEL HOUSING

ITEM	PART NO.	QTY.	DESCRIPTION
1	4391387	1	HOUSING, flywheel (If for engines prior to #21-09195 also order 4 CAPSCREW 923779 and item 13)
	922884	1	SETSCREW, hex-socket, cup-pt., Nylok, 7/16"NC x 1/2"
	920132	1	PLUG, pipe, 1/2"NPT
2	923810	2	□ O-RING, housing dowel
3	4373716	2	DOWEL, housing to crankcase
4	4379198	4	CAPSCREW, oil pan to housing (1/2"NC x 1-3/8", Nylok)(Used prior to engine #21-09165)
	926717	4	CAPSCREW, oil pan to housing (1/2"NC x 7/8"flanged head) (Effective with engine #21-09165)
	912333	4	WASHER, plain
5	4255335	2	BOLT, housing to crankcase (1/2"NC x 2")
6	4255334	8	BOLT, housing to crankcase (1/2"NC x 1-3/8")
7	4386651	1	POINTER, timing
	916284	2	CAPSCREW, 1/4"NC x 1/2"
	904204	2	LOCKWASHER, 1/4"
	911114	2	WASHER, plain, SAE std., 1/4"

(Continued)

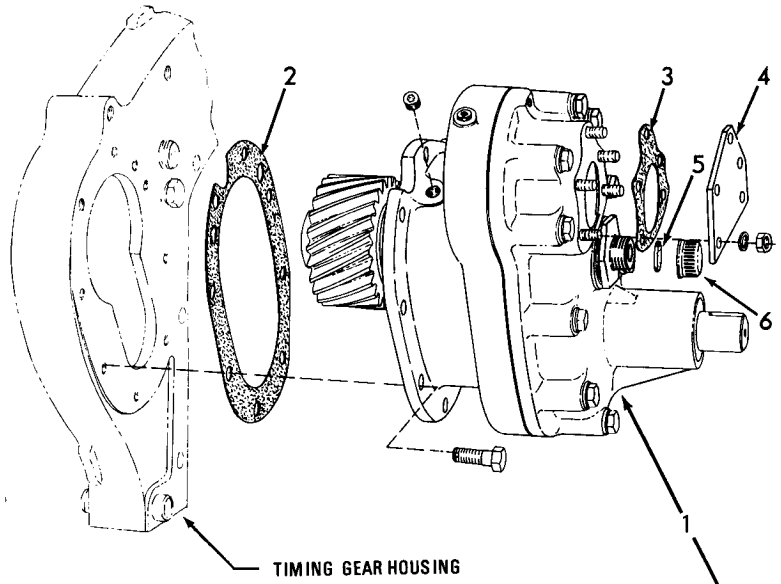
FLYWHEEL HOUSING (Continued)

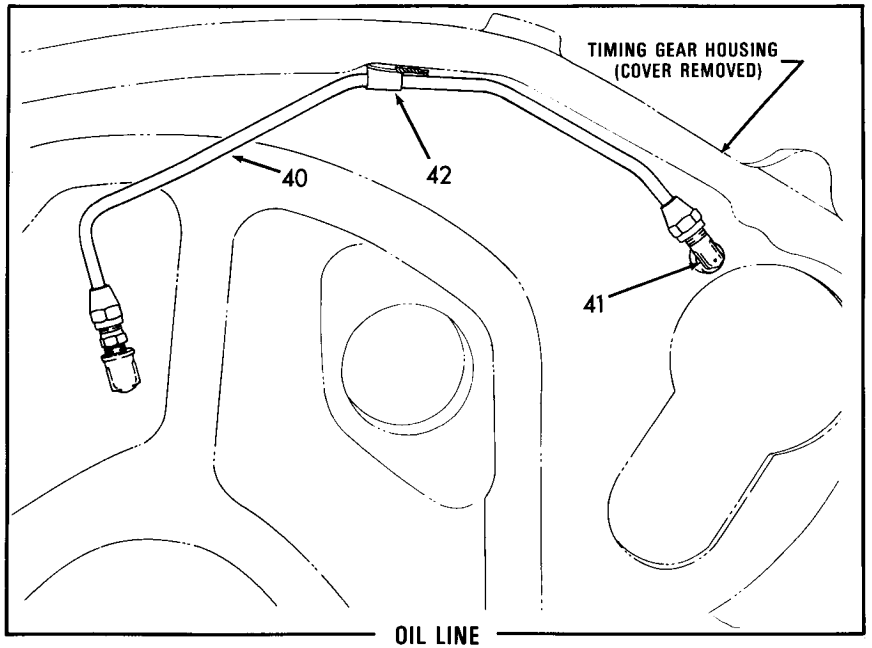
ITEM	PART NO.	QTY.	DESCRIPTION
8	4386650	1	COVER, timing hole
	915813	4	CAPSCREW, 5/16"NC x 7/8"
	904205	4	LOCKWASHER, 5/16"
9	4390432	1	□ GASKET, timing hole cover
10	4336897	1	□ RING, sealing, housing to crankcase
11	4255904	1	□ RING, sealing, housing to crankcase (camshaft hole)
12	4391711	1	SEAL, oil, crankshaft flange
13	4255898	1	□ RING, sealing, housing to crankcase (oil gallery hole)(Effective with engine #21-09195)

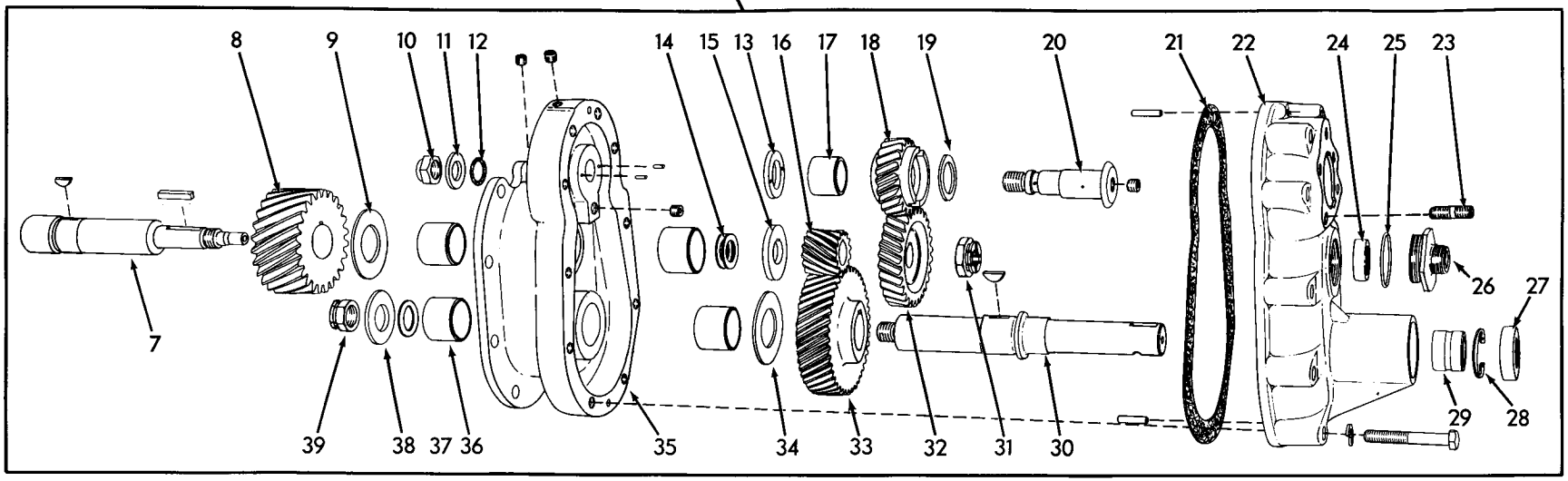


FLYWHEEL

ITEM	PART NO.	QTY.	DESCRIPTION
1	4388804	1	FLYWHEEL ASSEMBLY (Includes item 2)
2	4303694	1	GEAR, ring
3	4255912	1	□ O-RING, flywheel to crankshaft
4	4389201	8	BOLT, flywheel } Engines prior to #21-09247
5	4387026	8	NUT, flywheel bolt } Engines prior to #21-09247
6	4391160	8	WASHER, sealing } Engines prior to #21-09247
7	4391666	8	CAPSCREW, flywheel (Engines #21-09247 and up)







T-39416

ACCESSORY DRIVE

ACCESSORY DRIVE

* Engines prior to serial No. 21-09560
** Engines serial No. 21-09560 and up

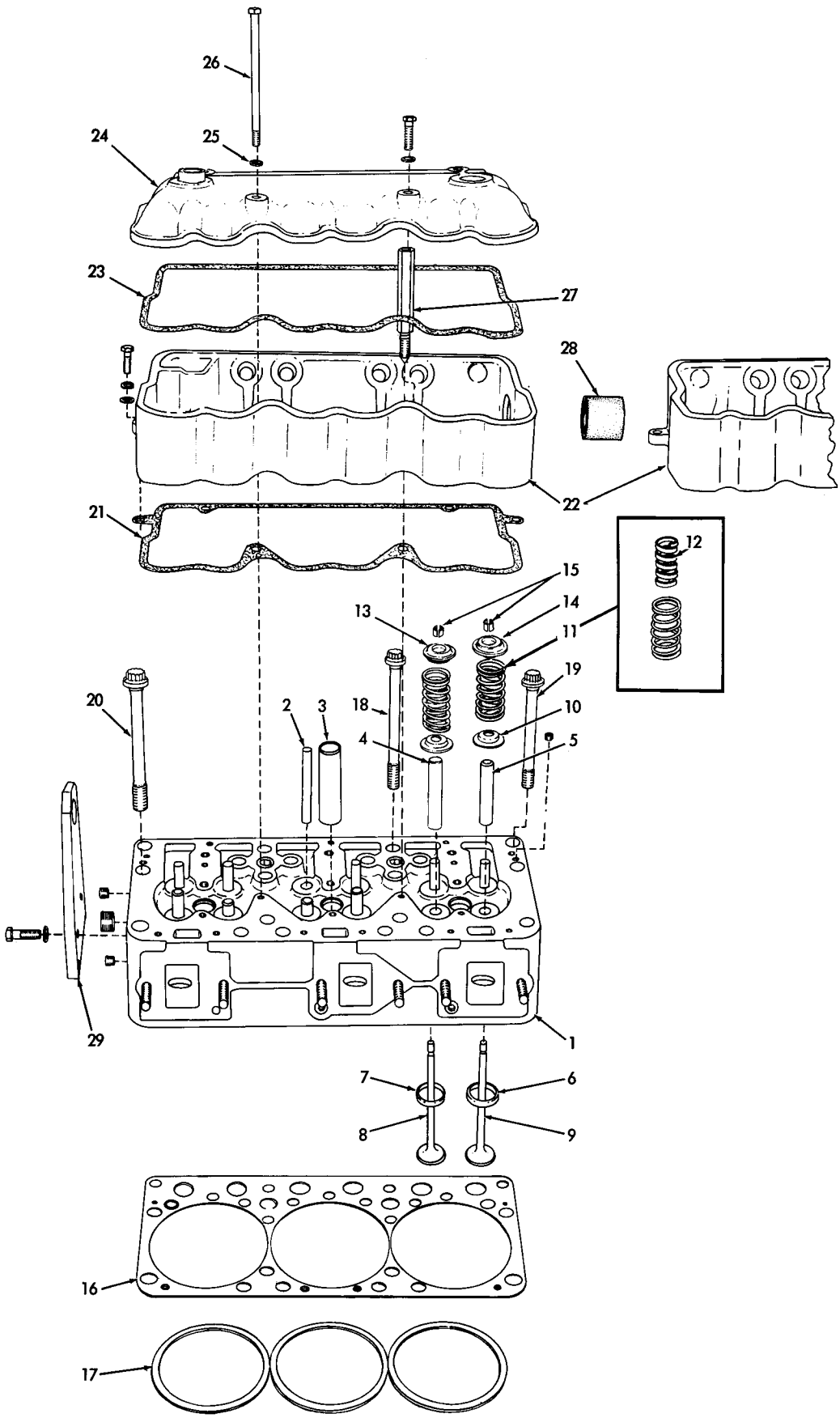
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	4391441	1	1	DRIVE ASSEMBLY (Consists of items 7 thru 39)
	921520	8	8	CAPSCREW, Nylok, 3/8"NC x 7/8"
2	4376603	1	1	□GASKET, accessory drive to gear housing
3	4386826	1	1	GASKET, housing cover plate
4	4389593	1	1	PLATE, housing cover
	904206	5	5	LOCKWASHER, 3/8"
	910123	5	5	NUT, 3/8"NF
5	4367090	1	1	□GASKET, tachometer hole nut
6	4371118	1	1	NUT, cover, tachometer hole
7	4388889	1	-	SHAFT, upper
	917409	2	-	KEY, #9 Woodruff, 3/16" x 3/4"
	923280	1	-	KEY, hi-pro, 3/16" x 15/16"
	4391419	-	1	SHAFT, upper
	917409	-	1	KEY, #9 woodruff, 3/16" x 3/4"
	905850	-	1	KEY, straight, 3/16" x 7/8"
8	4389055	1	-	GEAR, accessory drive
	4391403	-	1	GEAR, accessory drive
9	4368154	1	-	WASHER, thrust, upper shaft, front
	917014	2	-	PIN, dowel, 1/8" x 3/8"
	4391412	-	1	WASHER, thrust, upper shaft, front
10	4376671	1	1	NUT, auxiliary drive gear shaft
11	4389986	1	1	WASHER, auxiliary drive gear shaft (1/8" thick)
	900703	-	1	WASHER, auxiliary drive gear shaft (3/16" thick)
12	923574	1	1	O-RING, auxiliary drive gear shaft
13	4376598	1	1	WASHER, thrust, auxiliary drive gear
	917014	2	2	PIN, dowel, 1/8" x 3/8"
14	4362726	2	-	SHIM, upper shaft, end-play adjustment (laminated)
15	4388154	1	-	WASHER, thrust, rear
	4391407	-	1	WASHER, thrust, rear
16	4364404	1	1	GEAR, upper shaft (14 teeth)
17	4376596	1	1	BUSHING, auxiliary drive gear
18	4377122	1	1	GEAR ASSEMBLY, auxiliary drive (Includes item 17)

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
19	4376599	1	-	PLATE, thrust, auxiliary drive gear
	4391411	-	1	PLATE, thrust, auxiliary drive gear
20	4376591	1	1	SHAFT ASSEMBLY, auxiliary drive (Includes PLUG indented below)
	917673	1	1	PLUG, pipe, hex-socket, 1/8"NPT
21	4376604	1	1	GASKET, cover
22	4386711	1	1	COVER ASSEMBLY, housing (Includes item 29)
	912069	10	10	CAPSCREW, 3/8"NC x 2-1/2"
	904206	10	10	LOCKWASHER, 3/8"
	917023	2	2	PIN, dowel, 1/4" x 1"
23	4389599	5	5	STUD, housing cover
24	4391019	1	1	SEAL, oil, upper shaft
25	4251601	1	1	GASKET, tachometer drive adapter
26	4365627	1	1	ADAPTER, tachometer drive
27	4386879	1	1	SEAL, oil, lower shaft
28	4254742	1	1	RING, snap, bushing retaining
29	4377278	1	1	BUSHING, housing cover
30	4376702	1	-	SHAFT, lower
	4391475	-	1	SHAFT, lower
	917409	1	1	KEY, #9 woodruff, 3/16" x 3/4"
31	4369751	1	-	NUT, upper shaft
	900808	1	-	PIN, cotter, 1/8" x 1-1/2"
	918182	-	1	NUT, upper shaft (self-locking)
32	4376590	1	1	GEAR, driving, fuel transfer pump
33	4369712	1	-	GEAR, lower shaft (42 teeth)
	4391554	-	1	GEAR, lower shaft (42 teeth)
34	4368154	1	-	WASHER, thrust, lower shaft, rear
	917014	2	-	PIN, dowel, 1/8" x 3/8"
	4391412	-	1	WASHER, thrust, lower shaft, rear
35	4376602	1	-	HOUSING ASSEMBLY (Includes item 36)
	4391408	-	1	HOUSING ASSEMBLY (Includes item 36)
	917673	4	4	PLUG, pipe, hex-socket, 1/8"NPT

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
36	4369746	4	4	BUSHING, accessory drive housing
37	4362726	1	-	SHIM, lower shaft end-play adjustment (laminated)
38	4364166	1	1	WASHER, thrust, lower shaft, front
39	4371119	1	-	NUT, lower shaft
	900808	1	-	PIN, cotter, 1/8" x 1-1/2"
	918182	-	1	NUT, lower shaft (self-locking)
40	4376627	1	1	TUBE ASSY., lubricating oil (Includes nuts)
	910141	1	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
	917013	1	1	ELBOW, street, brass, 90°, 1/8"NPT
41	913475	1	1	ELBOW, oil tube (Engines prior to #21-09647)
	4391885	-	1	ELBOW (Has drilled orifice (Engines #21-09647 and up)
	917841	1	1	NIPPLE, pipe, 1/8"NPT x 7/8"
42	4361829	1	1	CLIP, tube supporting
	4335669	1	1	CAPSCREW, drilled-hd., 1/4"NC x 1/2"
	904204	1	1	LOCKWASHER, 1/4"
	4348691	1	1	WIRE, locking, #18 x 6"



T-37183

CYLINDER HEAD (First type)

CYLINDER HEAD

USAGE: Engines prior to serial No. 21-09775

* 21000 H engine
** 21000-Mark II engine

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	------	2	-	HEAD ASSEMBLY, cylinder (Order HEAD ASSEMBLY 4391712, 6 VALVE 4390677 and 6 RETAINER 4390678)
	4391712	-	2	HEAD ASSEMBLY, cylinder (Includes items 2 thru 7 and plugs indented below)
	917673	8	8	PLUG, pipe, hex-socket, 1/8"NPT
	904224	8	8	PLUG, pipe, ctsk-hd., 3/4"NPT
2	4386413	12	12	PIN, guide, valve bridge
3	4376484	6	6	SLEEVE, injection nozzle
4	4385301	12	12	GUIDE, intake valve
5	4386624	12	12	GUIDE, exhaust valve
6	------	12	-	INSERT, exhaust valve seat (standard size)(Order INSERT 4391713, VALVE 4390677 and RETAINER 4390678)
	4391713	-	12	INSERT, exhaust valve seat (standard size)
	------	12	-	INSERT, exhaust valve seat (.005" oversize)(Order INSERT 4391714, VALVE 4390677 and RETAINER 4390678)
	4391714	-	12	INSERT, exhaust valve seat (.005" oversize)
7	4386628	12	12	INSERT, intake valve seat (standard size)
	4386653	12	12	INSERT, intake valve seat (.005" oversize)
8	4386790	12	12	VALVE, intake
9	------	12	-	VALVE, exhaust (45°)(Order VALVE 4390677, RETAINER 4390678 and INSERT 4391713)
	4390677	-	12	VALVE, exhaust (30°)
10	4389685	24	24	SEAT, valve spring
11	4389294	24	24	SPRING ASSEMBLY, valve (Includes item 12)
12	4389293	24	24	DAMPER, valve spring
13	4389397	12	12	ROTOCOIL ASSEMBLY, intake valve (Serviced only as a unit)
14	4389397	12	-	ROTOCOIL ASSEMBLY, exhaust valve (Serviced only as a unit)
	4390678	-	12	RETAINER, exhaust valve spring
15	4376497	48	48	LOCK, valve stem
16	4390170	2	2	□GASKET ASSEMBLY, cylinder head (Includes item 17)
17	4390043	6	6	□GASKET, cylinder sealing

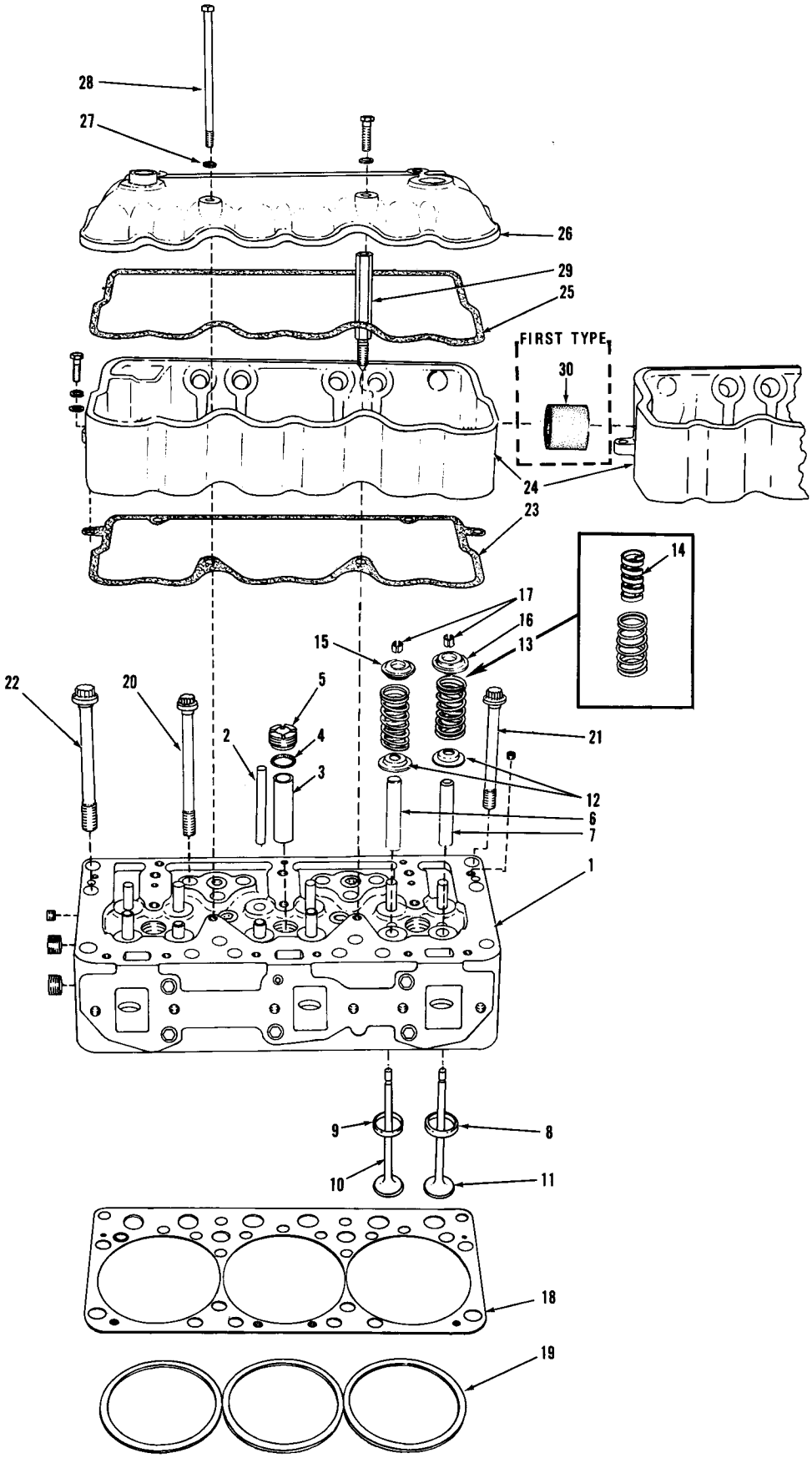
(Continued)

CYLINDER HEAD (Continued)

* 21000 H engine
** 21000-Mark II engine

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
18	4391306	30	30	SCREW, cylinder head (5/8"NC x 7")
	4391160	30	30	WASHER, plain, 5/8" (Early units)
19	4391307	2	2	SCREW, cylinder head (5/8"NC x 6")
	4391160	2	2	WASHER, plain, 5/8" (Early units)
20	4391308	8	8	SCREW, cylinder head (3/4"NC x 7-1/4")
	4391161	8	8	WASHER, plain, 3/4" (Early units)
21	4389960	2	2	□GASKET, lower cover
22	4386597	1	1	COVER, lower section, front
	4386598	1	-	COVER, lower section, rear (Engines prior to #21-07598)
	4387931	1	1	COVER, lower section, rear (Engines #21-07598 and up)
	916272	4	4	CAPSCREW, 3/8"NC x 1-1/4"
	904206	4	4	LOCKWASHER, 3/8"
	913544	4	4	WASHER, plain
23	4389961	2	2	□GASKET, rocker cover
24	4386901	1	-	COVER, rocker rear (Engines prior to #21-07598)
	4387726	1	1	COVER, rocker, rear (Effective with engine #21-07598)
	914847	1	1	CAPSCREW, 3/8"NC x 1-1/2"
	4386901	1	1	COVER, rocker, front
25	4254873	8	8	□WASHER, sealing, rocker cover capscrew
26	4386421	7	7	CAPSCREW, rocker cover
27	4389965	1	1	BOLT, extension, rear lower cover
28	4386941	1	1	COUPLING, breather, cylinder head cover
29	4387976	1	-	EYE, engine lifting, rear (Used prior to loader #14577)
	916311	3	-	CAPSCREW, 1/2"NC x 1-1/4"
	904208	3	-	LOCKWASHER, 1/2"

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



C Y L I N D E R H E A D (Second type)

T-37183

CYLINDER HEAD

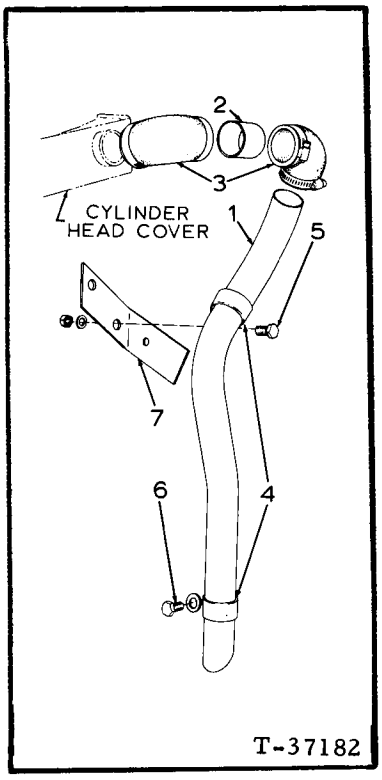
USAGE: Engines serial No. 21-09775 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	4392110	2	HEAD ASSEMBLY, cylinder (Includes items 2 thru 9 and plugs indented below)
	4255490	8	PLUG, pipe, hex-socket, 1/8"NPT
	4255491	2	PLUG, pipe, hex-socket, 1/4"NPT
	4255577	26	PLUG, pipe, hex-socket, 3/4"NPT
2	4386413	12	PIN, guide, valve bridge
3	4392051	6	SLEEVE, injection nozzle
4	926672	6	O-RING, injection nozzle sleeve
5	4392052	6	NUT, injection nozzle sleeve
6	4390547	12	GUIDE, intake valve
7	4390548	12	GUIDE, exhaust valve
8	4392053	12	INSERT, exhaust valve seat (standard size)
	4392068	12	INSERT, exhaust valve seat (.005" oversize)
9	4386628	12	INSERT, intake valve seat (standard size)
	4386653	12	INSERT, intake valve seat (005" oversize)
10	4386790	12	VALVE, intake
11	4392054	12	VALVE, exhaust
12	4389685	24	SEAT, valve spring
13	4389294	24	SPRING ASSEMBLY, valve (Includes item 14)
14	4389293	24	DAMPER, valve spring
15	4389397	12	ROTOCOIL ASSEMBLY, intake valve (Serviced only as a unit)
16	4390678	12	RETAINER, exhaust valve spring
17	4376497	48	LOCK, valve stem
18	4390170	2	□ GASKET ASSEMBLY, cylinder head (Includes item 19)
19	4390043	6	□ GASKET, cylinder sealing
20	4391306	26	SCREW, cylinder head (5/8"NC x 7")
21	4391307	2	SCREW, cylinder head (5/8"NC x 6")
22	4391308	8	SCREW, cylinder head (3/4"NC x 7-1/4")
23	4392037	2	□ GASKET, lower cover

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
24	4392059	1	COVER, lower section, front (If for engines prior to #21-10117, also order 1 PLUG, 921507 for rear cover and discard item 30)
	4392062	1	COVER, lower section, rear (If for engines prior to #21-10117, also order 1 PLUG 921507, for front cover and discard item 30)
	916272	4	CAPSCREW, 3/8"NC x 1-1/4"
	904206	4	LOCKWASHER, 3/8"
	913544	4	WASHER, plain
25	4392038	2	□GASKET, rocker cover
26	4387726	1	COVER, rocker, rear
	914847	1	CAPSCREW, 3/8"NC x 1-1/2"
	4386901	1	COVER, rocker, front
27	4254873	8	□WASHER, sealing, rocker cover capscrew
28	4386421	7	CAPSCREW, rocker cover
29	4389965	1	BOLT, extension, rear lower cover
30	4386941	1	COUPLING, breather, cylinder head cover (Engines prior to #21-10117)

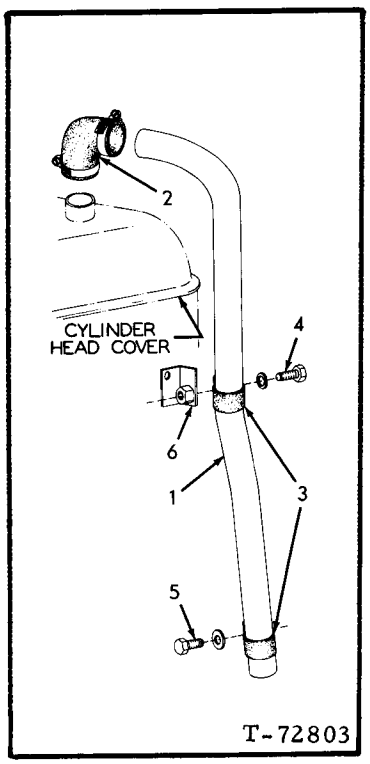
ENGINE BREATHER



USAGE: Engines prior to serial #21-07598

ITEM	PART NO.	QTY.	DESCRIPTION
1	4387675	1	TUBE, breather
2	4387560	1	TUBE, elbow connecting
3	4255351	2	ELBOW, rubber
	922198	4	CLAMP, hose 1-9/16" to 2-9/16"diam.
4	4255361	2	CLIP, tube supporting
5	914875	1	CAPSCREW, 1/2"NF x 1"
	904208	1	LOCKWASHER, 1/2"
	910195	1	NUT, 1/2"NF
6	921865	1	CAPSCREW, Nylok, 1/2"NC x 1"
	910244	1	WASHER, plain, SAE std., 1/2"
7	4387712	1	BRACKET, tube supporting

ENGINE BREATHER

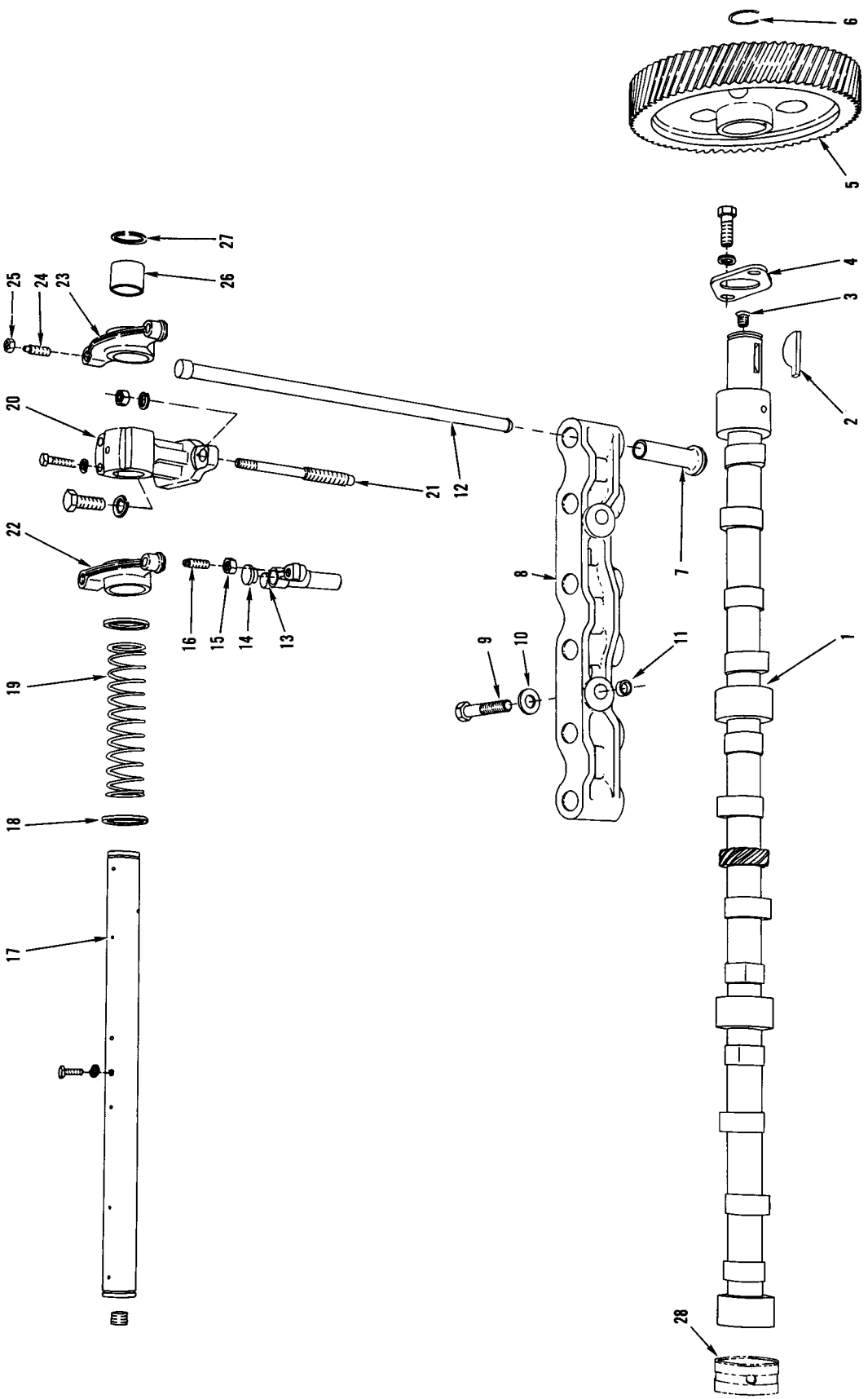


USAGE: Engines serial No. 21-07598 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	4390435	1	TUBE, breather
2	4255351	1	ELBOW, rubber
	922198	2	CLAMP, hose 1-9/16" to 2-9/16"diam.
3	4255361	2	CLIP, tube supporting
4	035221	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"
5	921865	1	CAPSCREW, Nylok, 1/2"NC x 1"
	910244	1	WASHER, plain, SAE std., 1/2"
6	656331	1	ANCLE, tube supporting

T-37184

VALVE OPERATING MECHANISM



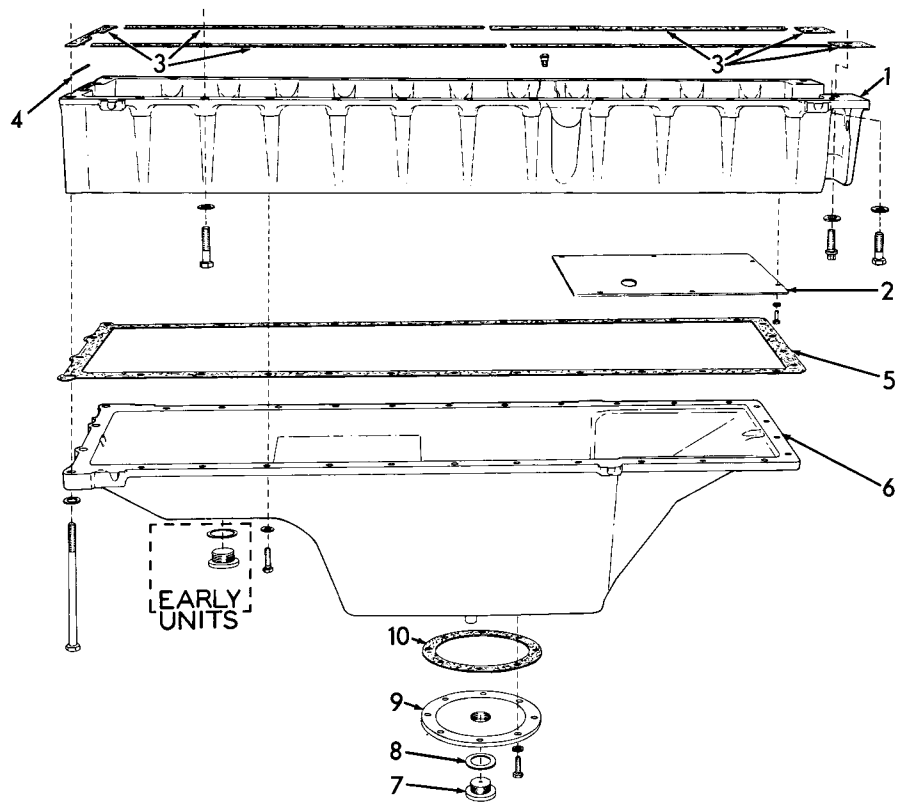
VALVE OPERATING MECHANISM

ITEM	PART NO.	QTY.	DESCRIPTION
1	4392182	1	CAMSHAFT (If for engines prior to #21-09755, also order 1 ELBOW 4391885. See ACCESSORY DRIVE.)
2	923738	1	KEY, camshaft gear
3	4001318	1	PLUG, camshaft oil hole (Engines prior to #21-09755)
4	4386776	1	PLATE, thrust
	916311	2	CAPSCREW, 1/2"NC x 1-1/4"
	904208	2	LOCKWASHER, 1/2"
5	4390661	1	GEAR, camshaft
6	4254295	1	RING, snap, gear retaining (Engines prior to #21-09755)
7	4389645	12	LIFTER, valve (Engine prior to #21-09710)
	4391845	12	LIFTER, valve (Engines #21-09710 and up)
8	4386787	1	BRACKET, valve lifter, front (Engines prior to #21-09710)
	4386788	1	BRACKET, valve lifter, rear (Engines prior to #21-09710)
	4391869	1	BRACKET, valve lifter, front (Engines #21-09710 and up)
	4391870	1	BRACKET, valve lifter, rear (Engines #21-09710 and up)
9	915969	4	CAPSCREW, 1/2"NC x 3"
10	4376277	4	WASHER, valve lifter bracket capscrew
11	4303038	4	DOWEL, valve lifter bracket
12	4386414	12	ROD, push (20" long)(Engines prior to #21-09710)
	4391849	12	ROD, push (17" long)(Engines #21-09710 and up)
13	4390270	12	BRIDGE ASSEMBLY, valve (Includes items 14 thru 16)
14	4376538	12	INSERT, valve bridge
15	4348440	12	NUT, valve bridge adjustment screw
16	4390254	12	SCREW, valve bridge adjustment
17	4390117	2	SHAFT ASSEMBLY, rocker arm (Includes PLUGS indented below)
	918887	4	PLUG, pipe, hex-socket, 3/8"NPT
	915406	2	CAPSCREW, 1/4"NC x 3/4"
	904204	2	LOCKWASHER, 1/4"
18	4386406	8	RETAINER, rocker arm
19	4386405	4	SPRING, rocker shaft
20	4389317	6	BRACKET, rocker shaft
	916311	6	CAPSCREW, 1/2"NC x 1-1/4" (attaching)
	904208	6	LOCKWASHER, 1/2"
	915807	12	CAPSCREW, 5/16"NC x 1-1/4" (clamping)
	904205	12	LOCKWASHER, 5/16"

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	4377541	6	STUD, rocker shaft bracket (Also retains injection nozzle holder)
	910325	6	NUT, 1/2"NC
	904208	6	LOCKWASHER, 1/2"
22	4388426	4	ARM ASSEMBLY, rocker, intake valve Nos. 1, 2, 4, 5
	4388427	2	ARM ASSEMBLY, rocker, exhaust valve Nos. 3, 6
23	4388424	4	ARM ASSEMBLY, rocker, exhaust valve Nos. 1, 2, 4, 5
	4390295	2	ARM ASSEMBLY, rocker, intake valve Nos. 3, 6
			NOTE: Each Arm Assembly listed above includes items 24 thru 26
24	4336646	12	SCREW, valve lash adjustment
25	4348440	12	NUT, adjustment screw
26	4388428	12	BUSHING, rocker arm
27	4253190	4	RING, snap, rocker arm shaft
28	------	-	BEARING, camshaft (See CYLINDER BLOCK)

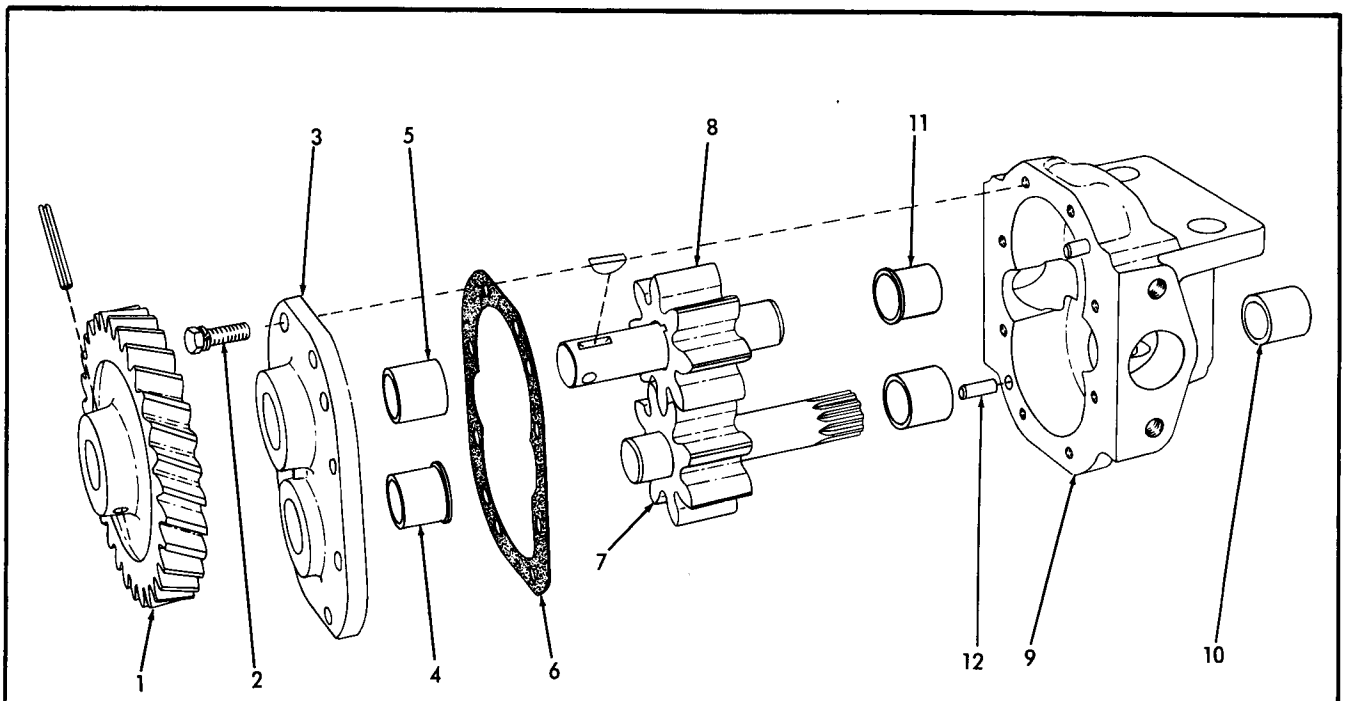
"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



T-39379

OIL PAN

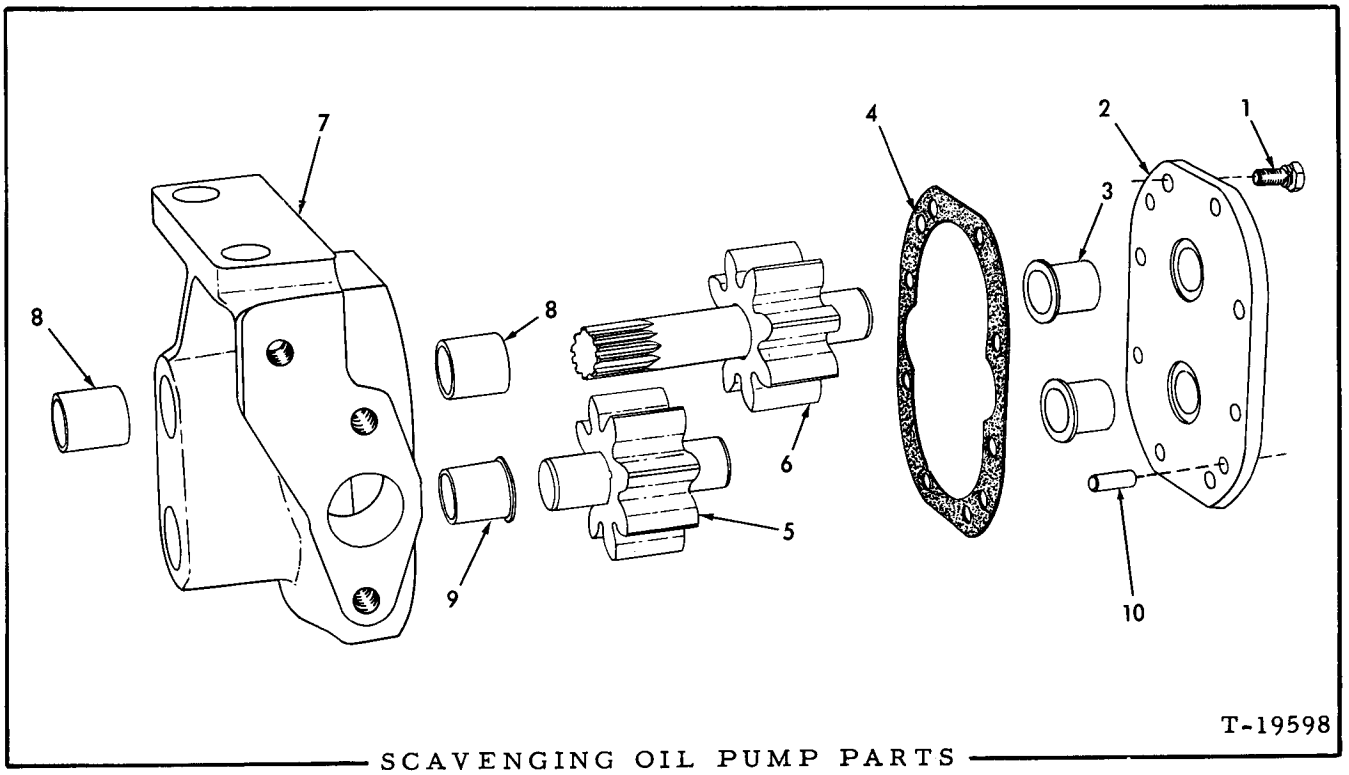
ITEM	PART NO.	QTY.	DESCRIPTION
1	4385778	1	PAN, oil, upper section
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT
	916314	23	CAPSCREW, 1/2"NC x 2"
	915987	1	CAPSCREW, 1/2"NC x 1-1/2"
	922065	2	SCREW, 12-pt. head, 1/2"NC x 1-1/4"
	912333	26	WASHER, plain, 1/2"
2	4385796	1	PLATE, oil baffle
	905656	6	CAPSCREW, 1/4"NC x 5/8"
	904204	6	LOCKWASHER, 1/4"
3	4365129	1	GASKET SET, upper oil pan
4	4379070	1	□SEAL, oil
5	4385781	1	GASKET SET, lower oil pan
6	4391390	1	PAN, oil, lower section
	914847	26	CAPSCREW, 3/8"NC x 1-1/2"
	911423	26	WASHER, plain, 3/8"
	916326	4	CAPSCREW, 1/2"NC x 7-1/2"
	912333	4	WASHER, plain, 1/2"
7	035250	2	PLUG, oil drain } 1 less used on engines #21-091217 and up
8	667252	2	□GASKET, drain plug }
9	4371255	1	PLATE, clean-out hole
	919224	8	CAPSCREW, 3/8"NC x 1-1/8"
	904206	8	LOCKWASHER, 3/8"
10	4371289	1	□GASKET, clean-out hole plate



PRESSURE OIL PUMP PARTS

* PUMP ASSEMBLY 4390076
** PUMP ASSEMBLY 4390252
See page 40

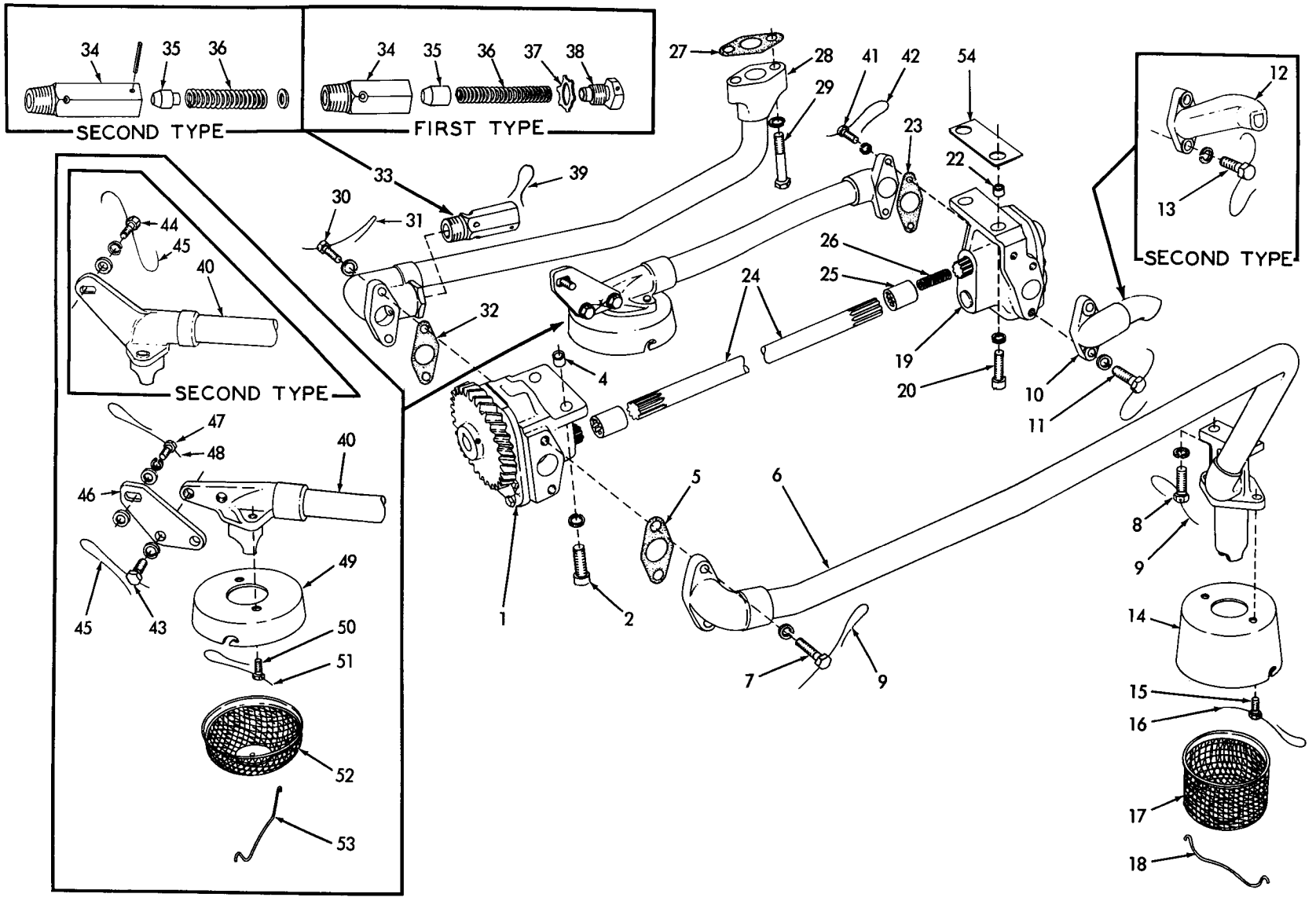
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	4389054	1	-	GEAR, driving
	4386088	-	1	GEAR, driving
	915989	1	-	PIN, spring, 3/16" x 1-3/8"
	915751	-	1	PIN, spring, 3/16" x 1-1/2"
	910204	1	1	KEY, #6 woodruff, 5/32" x 5/8"
2	923408	8	8	CAPSCREW, pump cover (Includes lockwasher)
3	4377037	1	-	COVER ASSEMBLY } Each includes items 4 and 5
	4386077	-	1	COVER ASSEMBLY } Each includes items 4 and 5
4	4377038	1	1	BUSHING, pump cover (flanged)
5	4371270	1	1	BUSHING, pump cover (plain)
6	4371300	1	-	GASKET, cover
	4386083	-	1	GASKET, cover
7	4379415	1	1	SHAFT AND GEAR ASSEMBLY, lower
8	4390078	1	-	SHAFT AND GEAR ASSEMBLY, upper (8 teeth)
	4390067	-	1	SHAFT AND GEAR ASSEMBLY, upper (10 teeth)
9	4390075	1	-	BODY ASSEMBLY (Includes items 10 thru 12)
	4390064	-	1	BODY ASSEMBLY
10	4371270	2	2	BUSHING, pump body (plain)
11	4377039	1	1	BUSHING, pump body (flanged)
12	917555	2	2	PIN, dowel, pump body



SCAVENGING OIL PUMP PARTS

* PUMP ASSEMBLY 4388485
** PUMP ASSEMBLY 4390098
See page 40

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	923408	8	8	CAPSCREW, pump cover (Includes lockwasher)
2	4377050	1	1	COVER ASSEMBLY (Includes item 3)
3	4377039	2	2	BUSHING, pump cover
4	4371300	1	1	GASKET, pump cover
5	4377054	1	1	SHAFT AND GEAR ASSEMBLY, lower
6	4379610	1	1	SHAFT AND GEAR ASSEMBLY, upper
7	4388486	1	-	BODY ASSEMBLY (Each includes items 8 thru 10)
	4390097	-	1	BODY ASSEMBLY (Each includes items 8 thru 10)
8	4371270	2	2	BUSHING, pump body (plain)
9	4377039	1	1	BUSHING, pump body (flanged)
10	917555	2	2	PIN, dowel, pump body



OIL PUMPS

OIL PUMPS

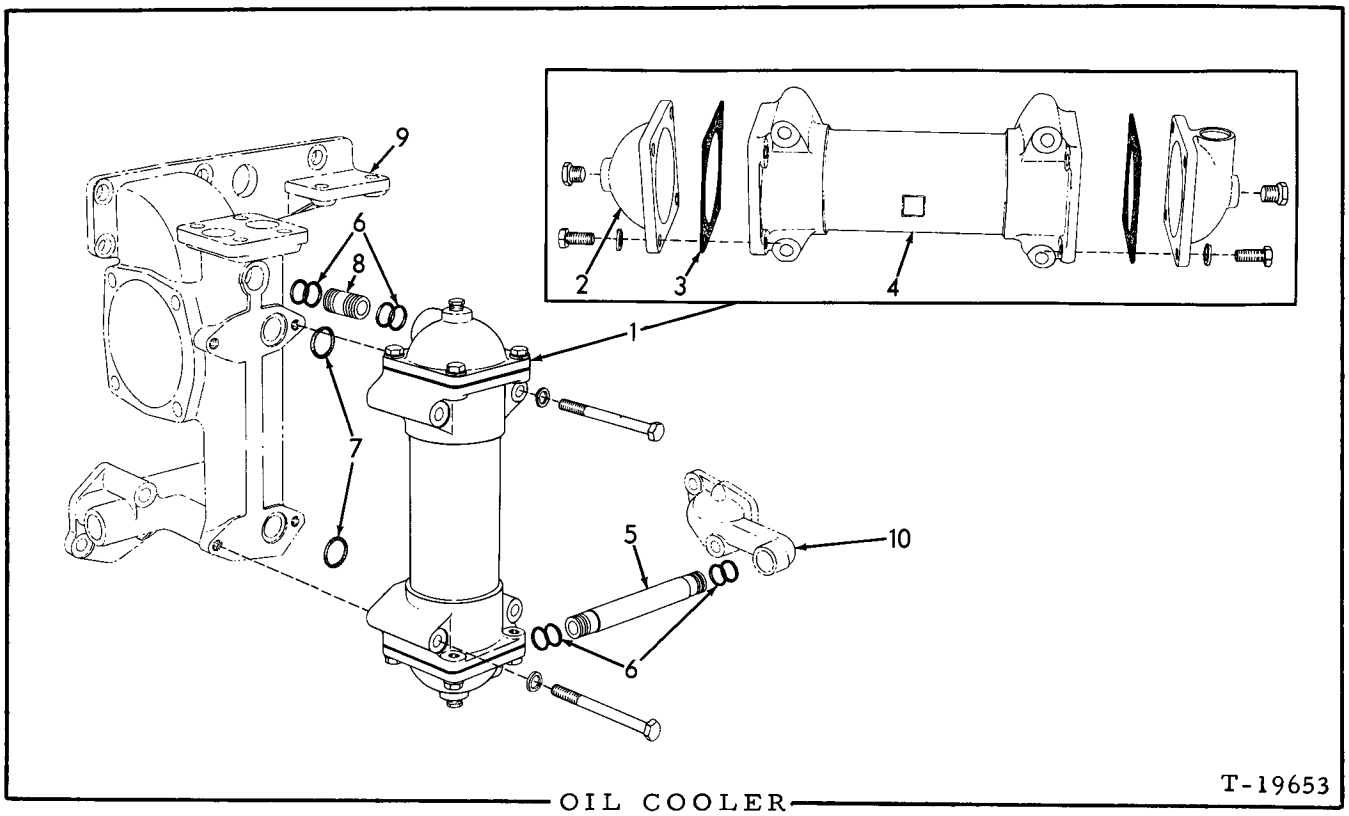
* 21000 H Engine
** 21000-Mark II Engine

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	4390076	1	-	PUMP ASSEMBLY, pressure (See page 38 for parts)
	4390252	-	1	PUMP ASSEMBLY, pressure (See page 38 for parts)
2	912274	2	2	CAPSCREW, socket hd., 7/16" NC x 1-1/2"
	904207	2	2	LOCKWASHER, 7/16"
4	4371253	2	2	DOWEL, hollow, pressure pump
5	4371345	1	-	□GASKET, pressure pump suction line
	4389782	-	1	□GASKET, pressure pump suction line
6	4385955	1	-	TUBE, suction, pressure pump
	4390362	-	1	TUBE, suction, pressure pump
7	4378558	2	2	CAPSCREW, drilled-hd., 3/8" NC x 1-1/8"
	904206	2	2	LOCKWASHER, 3/8"
8	4377201	2	2	CAPSCREW, drilled-hd, 7/16" NC x 1-1/4"
	904207	2	2	LOCKWASHER, 7/16"
9	4509035	2	2	WIRE, locking, #18 x 10"
10	4390195	1	-	TUBE, discharge, scavenging pump (Engines prior to #21-07663)
11	4378558	2	-	CAPSCREW, drilled-hd., 3/8" NC x 1-1/8"
	904206	2	-	LOCKWASHER, 3/8"
	4509035	1	-	WIRE, locking, #18 x 10"
12	4388488	1	1	TUBE, discharge, scavenging pump (Engines #21-07663 and up)
13	4335610	2	2	CAPSCREW, drilled-hd., 3/8" NC x 1"
	904206	2	2	LOCKWASHER, 3/8"
	4509035	1	1	WIRE, locking, #18 x 10"
14	4389732	1	1	COVER, pressure pump oil screen
15	4374129	2	-	CAPSCREW, drilled-hd., 5/16" NC x 3/4"
	915813	-	2	CAPSCREW, 5/16" NC x 7/8"
16	4509035	1	-	WIRE, locking,#18 x 10"
17	4374127	1	1	SCREEN, pressure oil pump
18	4376294	1	1	RETAINER, pressure oil pump screen
19	4388485	1	-	PUMP ASSEMBLY, scavenging (See page 39 for parts)
	4390098	-	1	PUMP ASSEMBLY, scavenging (See page 39 for parts)
20	912274	2	2	CAPSCREW, socket-hd., 7/16" NC x 1-1/2"
	904207	2	2	LOCKWASHER, 7/16"
22	4371253	2	2	DOWEL, hollow, scavenging pump
23	4371345	1	-	□GASKET, scavenging pump suction line
	4389782	-	1	□GASKET, scavenging pump suction line
24	4385537	1	1	SHAFT, scavenging pump drive

(Continued)

OIL PUMPS (Continued)

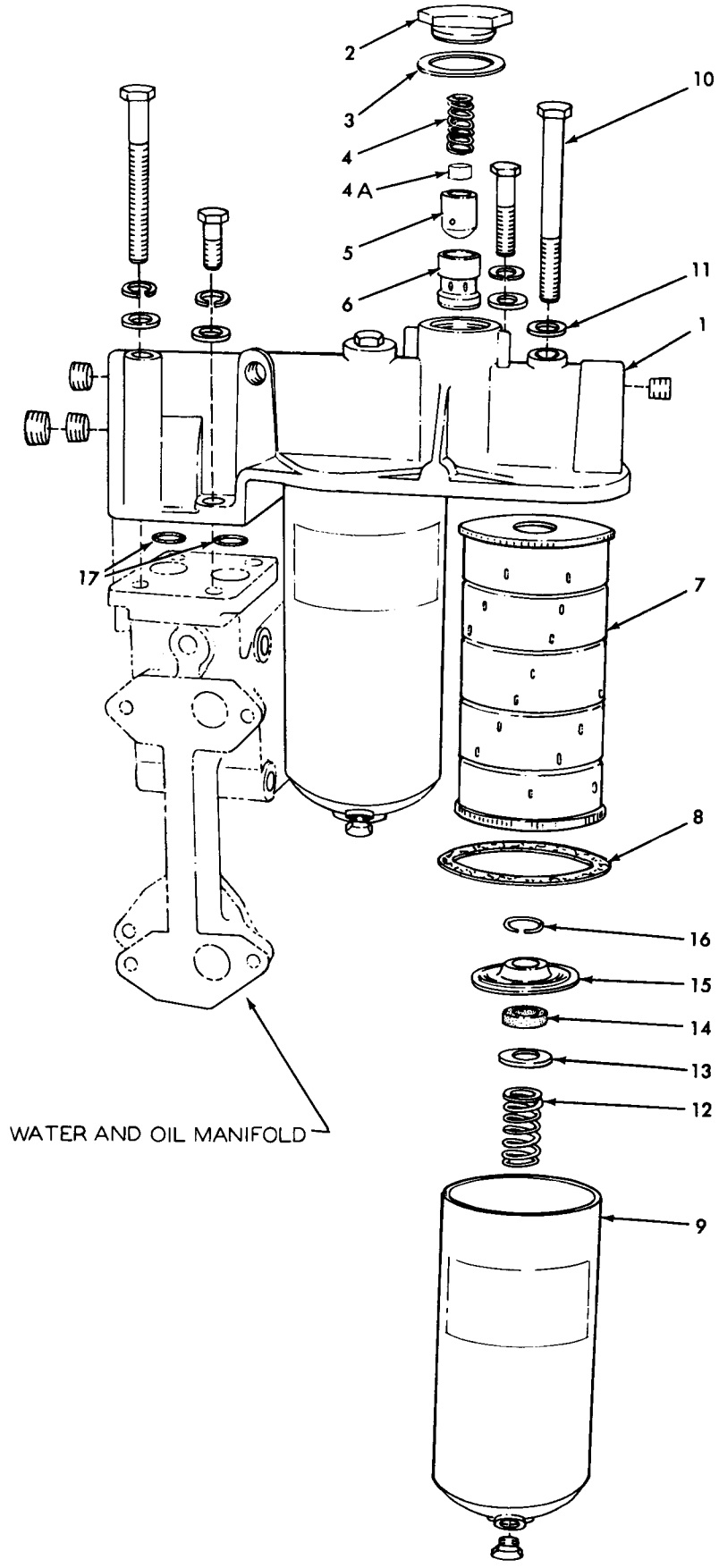
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
25	4385536	2	2	COUPLING, splined, scavenging pump drive
26	4385715	1	1	SPRING, pump drive shaft
27	4660423	1	1	□GASKET, discharge line to block
28	4388133	1	-	TUBE, pressure pump discharge
	4388261	-	1	TUBE, pressure pump discharge
29	916314	2	2	CAPSCREW, 1/2"NC x 2"
	904208	2	2	LOCKWASHER, 1/2"
30	4378558	2	2	CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"
	904206	2	2	LOCKWASHER, 3/8"
31	4509035	1	1	WIRE, locking #18 x 10"
32	4371345	1	-	□GASKET, discharge line to pump
	4389782	-	1	□GASKET, discharge line to pump
33	4354573	1	1	VALVE ASSEMBLY, pressure relief (Items 34 thru 36)
34	------	1	1	BODY, pressure relief valve — Not serviced separately
35	------	1	1	PISTON, pressure relief valve — Not serviced separately
36	------	1	-	SPRING, pressure relief valve (Used prior to engine #21-06741. Order item 33)
	4354568	1	1	SPRING, pressure relief valve (Effective with engine #21-06741)
	4359310	1	1	WASHER, plain
	916001	1	1	PIN, spring, 3/16" x 1"
37	------	1	-	WASHER, locking, relief valve cap — Used prior to engine #21-06741. Order item 33
38	------	1	-	CAP, relief valve — Used prior to engine #21-06741. Order item 33
39	4509035	1	1	WIRE, locking, pressure relief valve
40	4385961	1	-	TUBE, suction, scavenging pump
	4390328	-	1	TUBE, suction, scavenging pump
41	4378558	2	-	CAPSCREW, drilled-hd., 3/8"NC x 1-1/8"
	4335548	-	2	CAPSCREW, drilled-hd., 3/8"NC x 1-7/8"
42	4509035	1	1	WIRE, locking, #18 x 10"
43	4335610	2	-	CAPSCREW, drilled-hd. 3/8"NC x 1"
44	4377202	-	1	CAPSCREW, drilled-hd., 5/16"NC x 1"
	913755	-	1	WASHER, plain
	904206	4	2	LOCKWASHER, 3/8"
	904205	-	1	LOCKWASHER, 5/16"
45	4348691	1	1	WIRE, locking #18 x 6"
46	4385976	1	-	BRACKET, supporting, scavenging pump suction tube
47	4335600	1	-	CAPSCREW, drilled-hd., 5/16"NC x 7/8"
	910335	2	-	WASHER, plain, SAE std., 5/16"
	904205	1	-	LOCKWASHER, 5/16"
48	4348691	1	-	WIRE, locking, #18 x 6"
49	4348684	1	1	COVER, scavenging pump screen
50	4374129	2	-	CAPSCREW, drilled-hd., 5/16"NC x 3/4"
	915813	-	2	CAPSCREW, 5/16"NC x 7/8"
51	4509035	1	-	WIRE, locking, #18 x 10"
52	4348683	1	1	SCREEN, scavenging oil pump
53	4348682	1	1	RETAINER, scavenging oil pump screen
54	4386384	-	1	SHIM, scavenging pump



OIL COOLER

USAGE: 21000H engine only

ITEM	PART NO.	QTY.	DESCRIPTION
1	4389839	1	EXCHANGER ASSEMBLY, heat, lubricating oil (Consists of items 2 thru 4)(If for engines prior to #21-06509 also order TUBE 4389841)
	919801	4	CAPSCREW, 3/8"NC x 4"
	904206	4	LOCKWASHER, 3/8"
2	4386642	1	BONNET, heat exchanger core, lower
	4386642	1	BONNET, heat exchanger core, upper (Used prior to engine #21-06509)
	4388394	1	BONNET, heat exchanger core, upper (Effective with engine #21-06509)
	919840	2	PLUG, pipe, hex-hd., 1/4"NPT
	915408	8	CAPSCREW, 3/8"NC x 3/4"
	904206	8	LOCKWASHER, 3/8"
3	4349984	2	GASKET, heat exchanger core
4	4376991	1	CORE, heat exchanger
5	4386864	1	TUBE, water, heat exchanger to by-pass tube
6	923379	8	□O-RING, heat exchanger water tubes
7	4255631	2	□O-RING, heat exchanger to manifold
8	4389129	1	TUBE, water, heat exchanger to manifold (1-7/16" long) (Original equipment)
	4389841	1	TUBE, water, heat exchanger to manifold (1-11/16" long) (Used for special service only. See item 1)
9	------	-	MANIFOLD, water and oil (See WATER INLET MANIFOLD AND HEAT EXCHANGER)
10	------	-	FLANGE, water pump (See WATER OUTLET MANIFOLD)



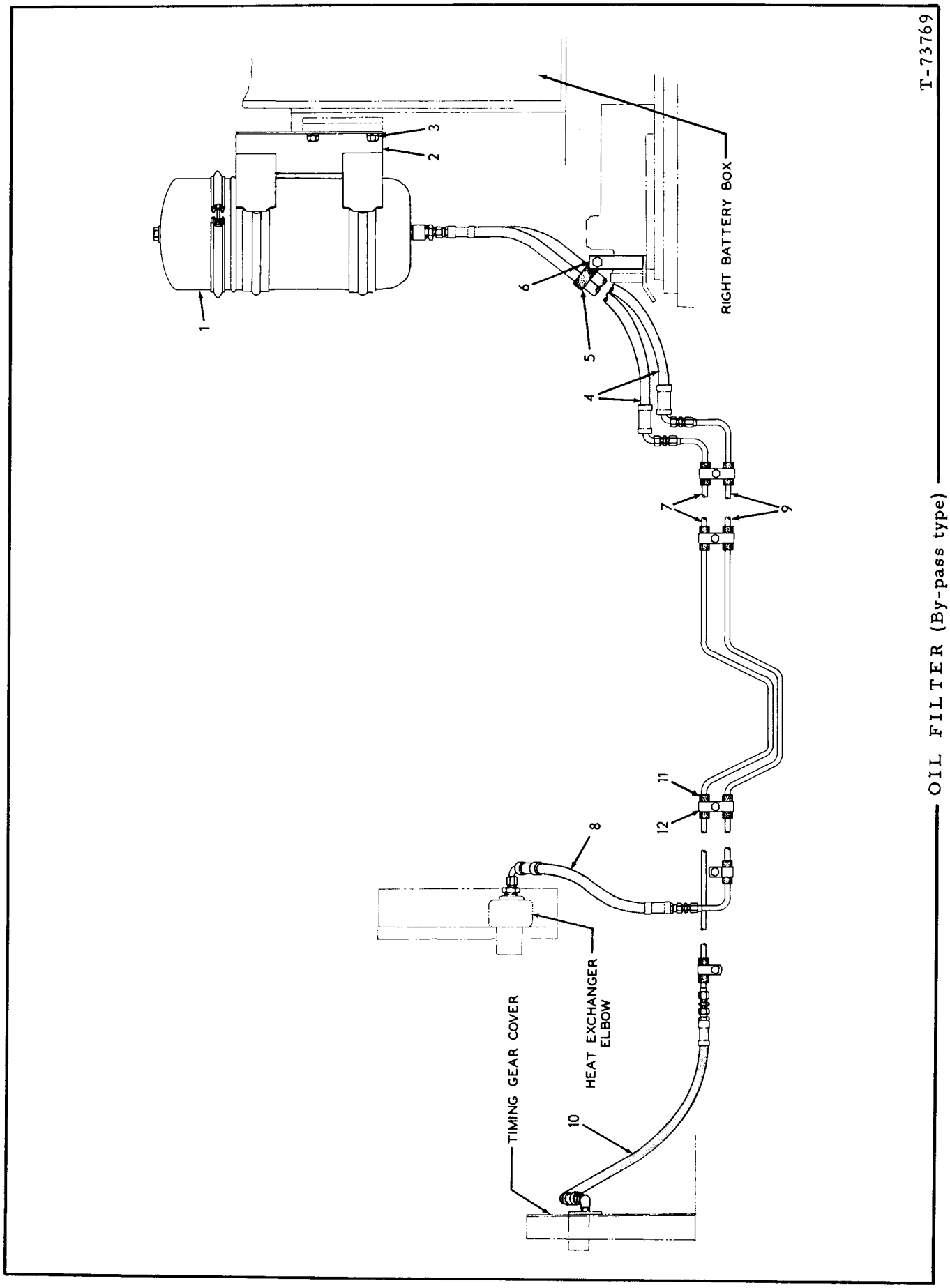
OIL FILTER (Full-flow type)

T-70444

OIL FILTER
(Full-flow type)

ITEM	PART NO.	QTY.	DESCRIPTION
1	4391146	1	HEAD ASSEMBLY (Includes items 2 thru 6; also PLUGS indented below)
	918888	3	PLUG, pipe, hex-socket, 1"
	918697	1	PLUG, pipe, hex-socket, 1-1/4"
	915987	2	CAPSCREW, 1/2"NC x 1-1/2"
	916317	2	CAPSCREW, 1/2"NC x 2-3/4"
	916323	2	CAPSCREW, 1/2"NC x 5-1/2"
	912333	6	WASHER, plain
	904208	6	LOCKWASHER, 1/2"
2	4388810	1	CAP, by-pass valve
3	4388848	1	GASKET, by-pass valve cap
4	4335666	1	SPRING, by-pass valve
4A	4391038	1	SPACER, by-pass valve
5	4373613	1	PISTON, by-pass valve
6	4388809	1	SLEEVE, by-pass valve piston
7	4371021	2	ELEMENT KIT (Includes item 8)
8	4372325	2	GASKET, filter body
9	4339021	2	BODY
	918951	2	PLUG, pipe, hex-hd., 3/8"NPT
10	4388836	2	CAPSCREW, body retaining
11	4376749	2	WASHER, sealing, body retaining capscrew
12	4379268	2	SPRING, element
13	4053410	2	WASHER, element seal
14	4053409	2	SEAL, element
15	4055971	2	ADAPTOR, element
16	4379269	2	RING, snap
17	4255631	2	O-RING, filter to manifold

NOTE: See PAINTING AND MARKING for instruction transfer applied to filter


T-73769
OIL FILTER (By-pass type)
RIGHT BATTERY BOX
TIMING GEAR COVER
HEAT EXCHANGER ELBOW
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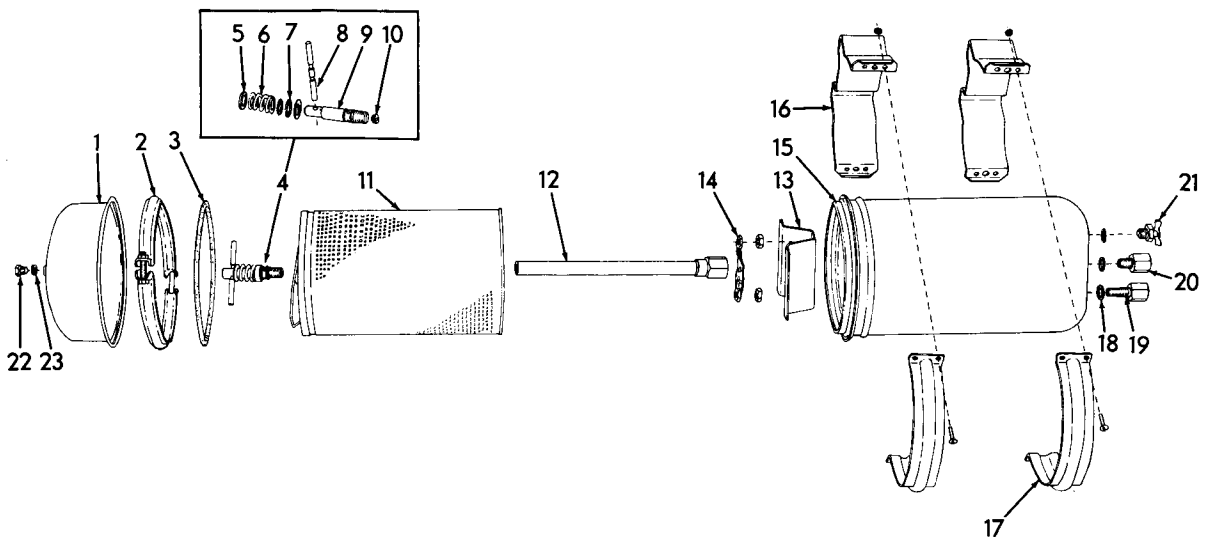
OIL FILTER
(By-pass type)

USAGE: Standard equipment on units with 21000-Mark II engine. Supplements engine-mounted full-flow oil filter.

ITEM	PART NO.	QTY.	DESCRIPTION
1	4390593	1	FILTER ASSEMBLY (See page 48 for parts)
	911168	8	CAPSCREW, 5/16" NF x 7/8"
	904205	8	LOCKWASHER, 5/16"
	913636	8	NUT, 5/16" NF
2	661159	1	BRACKET, mounting
3	035061	4	CAPSCREW, 1/2" NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
4	661139	2	HOSE, rear (See HOSE PARTS)
	919127	2	CONNECTOR, flare type, 3/8" tube, 1/2" NPT male
5	643941	1	CLIP, rear hose
	070467	1	CAPSCREW, 1/2" NF x 1"
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2" NF
6	632436	1	BRACKET, supporting, rear hose
7	659551	1	TUBE ASSEMBLY, oil return (Includes nuts)
	919065	1	UNION, flare type, 3/8" tube
8	659546	1	HOSE, oil supply line, front (See HOSE PARTS)
	919172	1	CONNECTOR, flare type, 3/8" tube, 3/8" NPT male
9	659552	1	TUBE ASSEMBLY, oil supply (Includes nuts)
	919065	1	UNION, flare type, 3/8" tube
10	659547	1	HOSE, oil return line, front (See HOSE PARTS)
	919136	1	ELBOW, flare type, 3/8" tube, 3/8" NPT male
11	093751	8	BOOT, tube protecting (rubber)
12	055234	8	CLIP, tube supporting
	035244	5	CAPSCREW, 3/8" NC x 3/4"
	904206	5	LOCKWASHER, 3/8"
	911115	5	WASHER, plain, SAE std., 3/8"

NOTE: See PAINTING AND MARKING for transfers applied to filter



T-74660

OIL FILTER ASSEMBLY 4390593

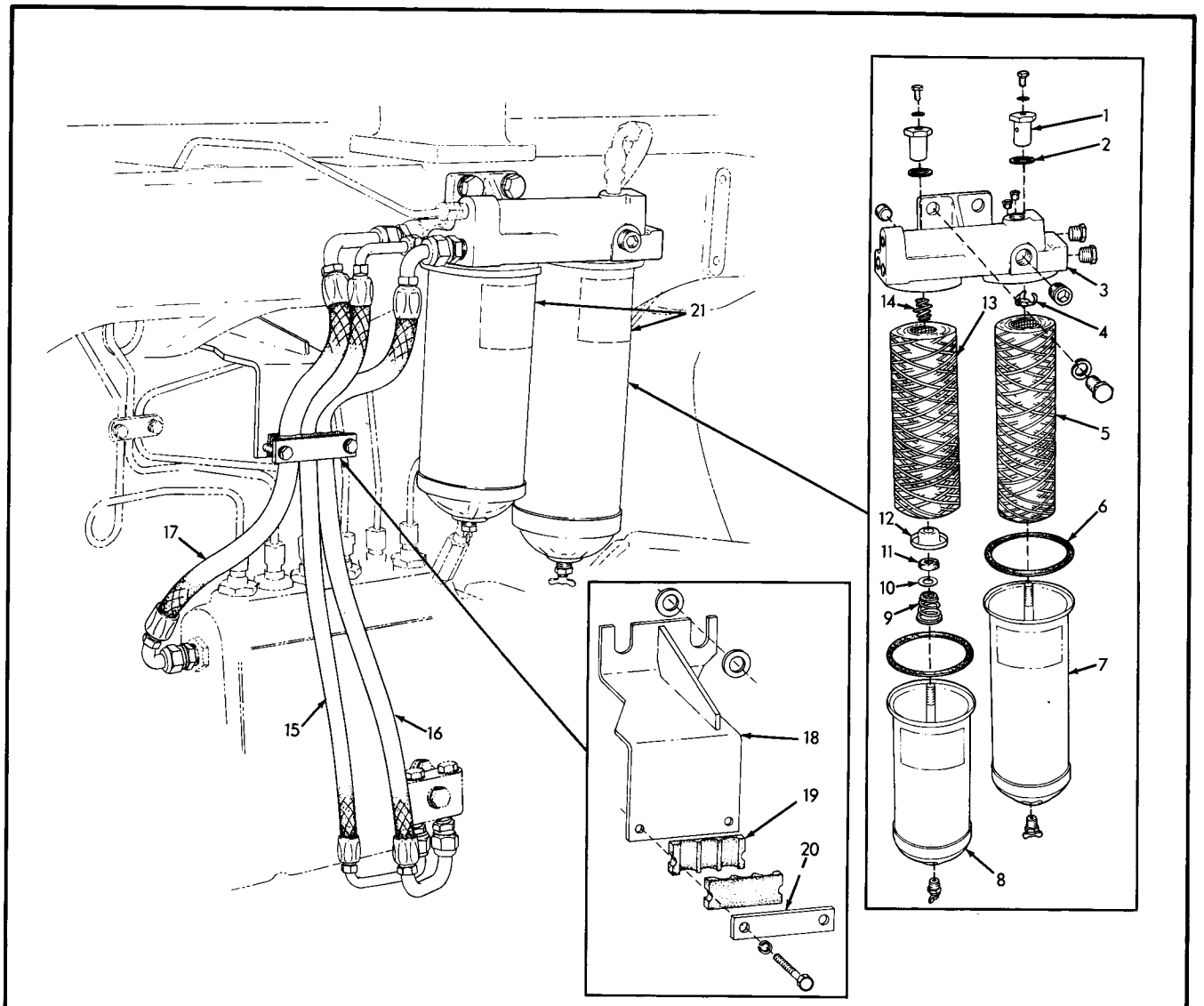
USAGE: See page 47

ITEM	PART NO.	QTY.	DESCRIPTION
1	4059262	1	COVER
2	630540	1	RING ASSEMBLY, cover retaining (Includes nut and bolt)
3	082449	1	GASKET, cover
4	4059266	1	HOLD-DOWN ASSEMBLY, filter element (Includes items 5 thru 10)
5	082489	3	WASHER, element hold-down
6	082490	1	SPRING, element hold-down
7	082487	1	SEAL, element hold-down
8	082488	1	HANDLE, element hold-down
9	------	1	STUD, element hold-down (Not serviced separately)
10	4059265	1	PLUG, orifice, element hold-down
11	4059343	1	ELEMENT, filtering
12	4059264	1	TUBE ASSEMBLY, outlet (Includes nut)
13	096816	1	SUPPORT, filter element
	911049	2	NUT, jam, 5/8" NF
14	096815	1	RETAINER, element support nut

(Continued)

OIL FILTER ASSEMBLY 4390593 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
15	------	1	HOUSING (Not serviced separately)
16	082444	2	BRACKET, mounting
17	082443	2	BAND, mounting bracket
	915406	8	CAPSCREW, 1/4" NCx 3/4"
	911024	8	NUT, 1/4" NC
18	063891	3	GASKET
19	063890	1	VALVE ASSEMBLY, inlet check (Includes 1 spring, 1 ring, 1 cup. Serviced only as a unit)
20	080758	1	VALVE ASSEMBLY, outlet check (Includes 1 spring, 1 ring, 1 cup. Serviced only as a unit)
21	094167	1	COCK, drain
22	084897	1	PLUG, venting
23	084899	1	WASHER, venting plug



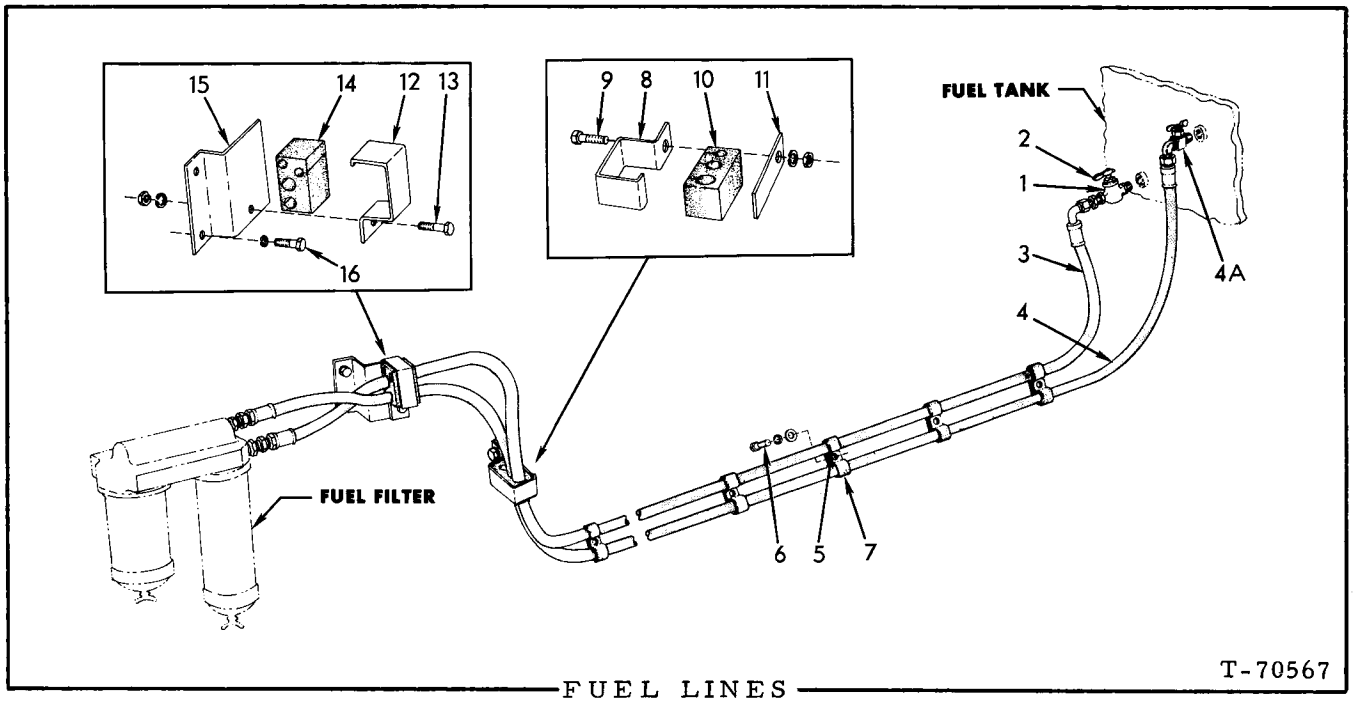
FUEL FILTER

ITEM	PART NO.	QTY.	DESCRIPTION
1	4389113	2	NUT, shell retaining
	919288	2	CAPSCREW, 1/4"NC x 3/8" } Air bleed
	914686	2	WASHER, copper } Air bleed
2	4051484	2	GASKET, shell retaining nut
3	4389051	1	HEAD ASSEMBLY (Includes PLUGS indented below)
	919134	2	PLUG, pipe, hex-hd., 1/8"NPT
	920333	2	PLUG, pipe, hex-hd., 3/8"NPT
	918887	2	PLUG, pipe, hex-socket, 3/8"NPT
	916311	2	CAPSCREW, 1/2"NC x 1-1/4"
	904208	2	LOCKWASHER, 1/2"
4	4051485	1	GUIDE, element centering, first stage filter
5	4055565	1	ELEMENT KIT, primary filter (Includes item 6)
6	4040013	2	GASKET, filter shell

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	4389172	1	SHELL ASSEMBLY, first stage filter (Includes items 1, 2, 4, 5, 6 and COCK 912415)
	912415	1	COCK, drain, 1/4"NPT
8	4388109	1	SHELL ASSEMBLY, second stage filter (Includes items 1, 2, 6, 9 thru 14 and COCK 912415)
	912415	1	COCK, drain, 1/4"NPT
9	4052174	1	SPRING, second stage filter
10	------	1	WASHER, element plate gasket (Not serviced separately)
11	------	1	GASKET, element plate (Not serviced separately)
12	4052173	1	PLATE, element seating, second stage filter
13	4056632	1	ELEMENT KIT, second stage filter (Includes items 6, 10 and 11)
14	4055913	1	GUIDE, element centering, second stage filter
15	4386771	1	HOSE ASSEMBLY, transfer pump to second stage filter (See HOSE PARTS)
	919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	919172	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
16	4386772	1	HOSE ASSEMBLY, first stage filter to transfer pump (See HOSE PARTS)
	919205	1	CONNECTOR, flare type, 1/2"tube, 1/4"NPT male
	919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
17	4386774	1	HOSE ASSEMBLY, second stage filter to injection pump (See HOSE PARTS)
	919063	2	CONNECTOR, flare type, 1/2"tube, 3/8"NPT male
18	4387129	1	BRACKET, hose supporting
	910244	4	WASHER, plain, SAE std., 1/2"
19	4377253	2	INSERT, hose clamping (rubber)
20	4387196	1	CLAMP, hose supporting
	916286	2	CAPSCREW, 1/4"NC x 1-1/2"
	904204	2	LOCKWASHER, 1/4"
21	------	-	TRANSFER (See PAINTING AND MARKING)

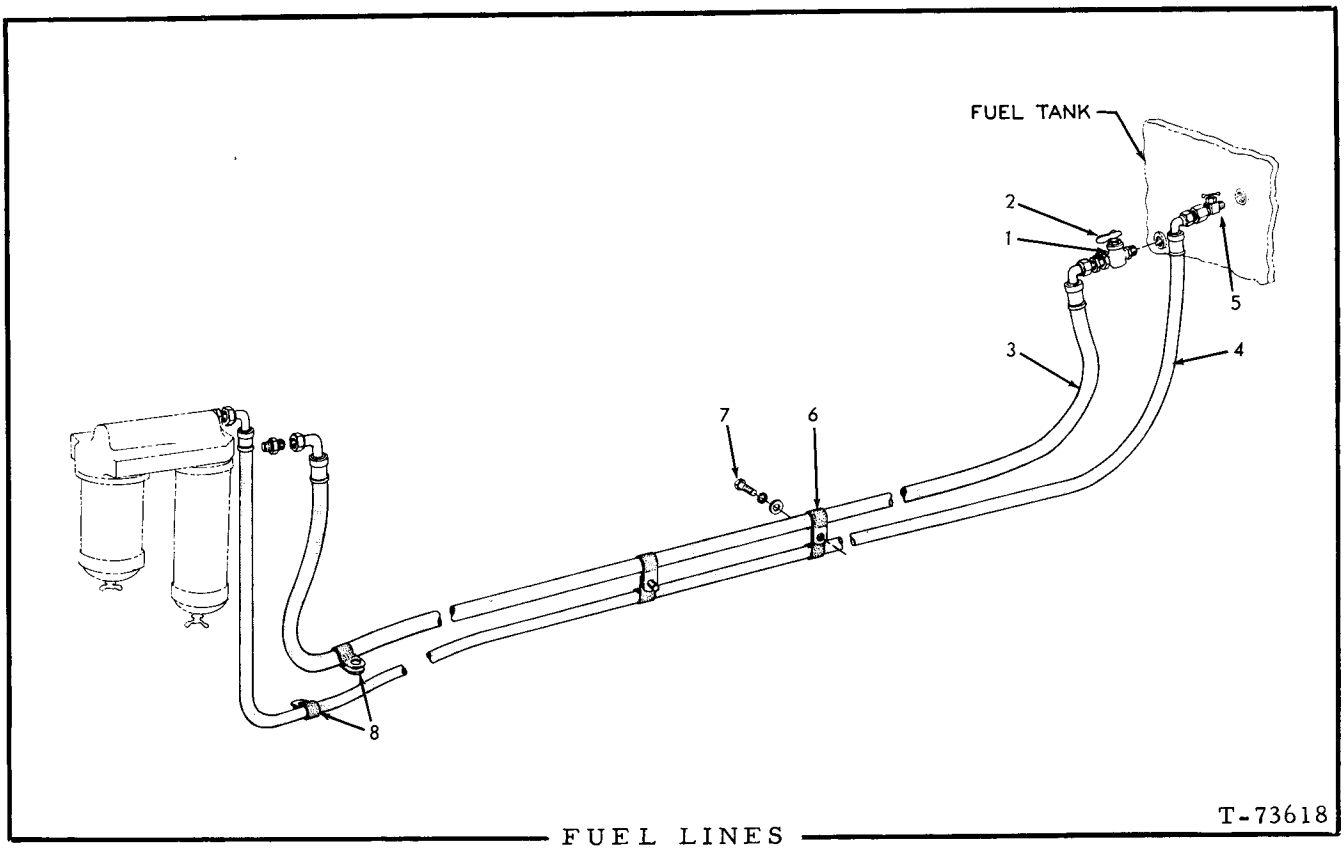
"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



FUEL LINES

USAGE: Loaders prior to serial No. 14577

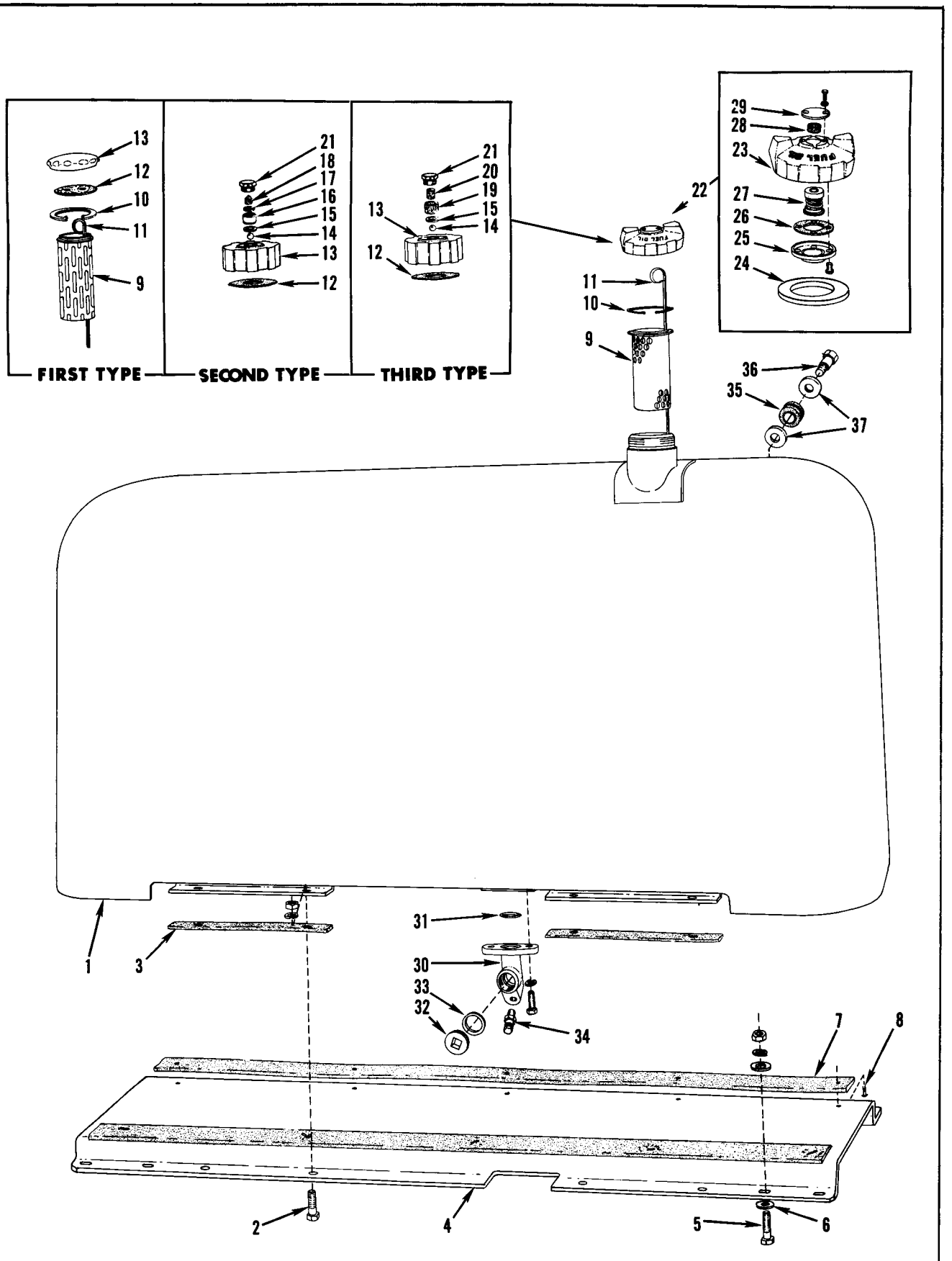
ITEM	PART NO.	QTY.	DESCRIPTION
1	092727	1	COCK, fuel shut-off (Includes item 2)
2	082189	1	HANDLE, fuel shut-off cock
3	644511	1	HOSE, fuel supply (See HOSE PARTS)
	919063	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
4	644510	1	HOSE, fuel return (See HOSE PARTS)(Used prior to loader #13915)
	919062	2	CONNECTOR, flare type, 3/8"tube, 1/4"NPT male
4	648239	1	HOSE, fuel return (See HOSE PARTS)(Effective with loader #13915)
	919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	921852	1	ELBOW, flare type, 3/8" tube, 1/4"NPT female
4A	914378	1	VALVE, shut-off, fuel return line (1/4"NPT ends)(Effective with loader #13915)
5	622992	5	CLIP, fuel supply hose
6	035244	5	CAPSCREW, 3/8"NC x 3/4"
	904206	5	LOCKWASHER, 3/8"
	911115	5	WASHER, plain, SAE std., 3/8"
7	094467	5	CLIP, fuel return hose
8	644529	1	CLAMP, hose attaching
9	036034	1	CAPSCREW, 3/8"NF x 1"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
10	644531	1	BLOCK, hose clamp (rubber)
11	641562	1	STRAP, hose supporting
12	095980	1	CLAMP, hose attaching
13	036034	1	CAPSCREW, 3/8"NF x 1"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
14	644530	1	BLOCK, hose clamp (rubber)
15	096310	1	BRACKET, hose supporting
16	035244	2	CAPSCREW, 3/8"NC x 3/4"
	904206	2	LOCKWASHER, 3/8"



FUEL LINES

USAGE: Loaders serial No. 14577 and up.

ITEM	PART NO.	QTY.	DESCRIPTION
1	092727	1	COCK, fuel shut-off (Includes item 2)
2	082189	1	HANDLE, fuel shut-off cock
3	654457	1	HOSE, fuel supply (See HOSE PARTS)
	919063	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
4	654458	1	HOSE, fuel return (See HOSE PARTS)
	919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male
	923178	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT female
5	914378	1	VALVE, shut-off, fuel return line (1/4"NPT ends)
6	622992	6	CLIP, fuel supply hose
7	035244	5	CAPSCREW, 3/8"NF x 3/4"
	904206	5	LOCKWASHER, 3/8"
	911115	5	WASHER, plain, SAE std., 3/8"
8	094467	6	CLIP, fuel return hose


FIRST TYPE
SECOND TYPE
THIRD TYPE
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T-40516

FUEL TANK

* Loaders prior to serial No. 13983
** Loaders serial No. 13983 thru No. 14801
Δ Loaders serial No. 14802 thru
ΔΔ Loaders serial No.

ITEM	PART NO.	QUANTITY *	**	Δ	ΔΔ	DESCRIPTION
1	------	1	-	-	-	TANK, fuel — Order 1 each TANK 654834, CAP ASSY. 652567, GASKET 655416, RING 654840 and STRAINER 650509
	------	-	1	-	-	TANK, fuel
	654834	-	-	1	1	TANK, fuel
2	035014	8	8	8	8	CAPSCREW, 5/8"NF x 1-1/2"
	904209	8	8	8	8	LOCKWASHER, 5/8"
	911044	8	8	8	8	NUT, 5/8"NF
3	083917	4	4	4	4	PAD, tank mounting
4	632272	1	1	1	1	CHANNEL ASSY., tank supporting (Includes items 7 and 8)
5	035229	8	8	-	-	CAPSCREW, 5/8"NF x 2" (Early units)
	071113	-	8	8	8	CAPSCREW, 5/8"NC x 2" (Late units)
6	064810	8	8	8	8	WASHER, plain
	904209	8	8	8	8	LOCKWASHER, 5/8"
	911044	4	4	-	-	NUT, 5/8"NF (Early units)
	911029	-	4	4	4	NUT, 5/8"NC (Late units)
7	083918	2	2	2	2	PAD, tank mounting
8	083915	8	8	8	8	RIVET, split, 3/16" x 3/4" (Not original equipment)
9	642749	-	1	-	-	STRAINER, fuel
	650509	-	-	1	1	STRAINER, fuel
10	621775	-	1	-	-	RING, snap, fuel strainer
	654840	-	-	1	1	RING, snap, fuel strainer
11	053100	1	-	-	-	GAUGE, fuel level
	648992	-	1	1	1	GAUGE, fuel level
12	065613	1	1	-	-	GASKET, fuel tank cap
	655416	-	-	1	-	GASKET, fuel tank cap
13	642744	1	1	-	-	CAP, fuel tank
	652567	-	-	1	-	CAP ASSY., fuel tank (Includes items 14 thru 19)
14	652586	-	-	1	-	BALL, check (aluminum)
15	652587	-	-	1	-	WASHER, check ball
16	------	-	-	1	-	SPACER, breather — FIRST TYPE FILTER, Used prior to loader #15058. Order items 19 and 20
17	------	-	-	1	-	SCREEN, breather
18	------	-	-	1	-	FILTER, breather
19	664867	-	-	1	-	ELEMENT, breather (lower) — SECOND TYPE FILTER. Effective with loader #15058
20	664868	-	-	1	-	ELEMENT, breather (upper)
21	652590	-	-	1	-	BREATHER, fuel tank (Used prior to loader #15058)
	664866	-	-	1	-	BREATHER, fuel tank (Effective with loader #15058)
22	668252	-	-	-	1	CAP ASSY., fuel tank (Consists of items 23 thru 29)
23	------	-	-	-	1	CAP, only (Not serviced separately)
24	668263	-	-	-	1	GASKET, cap
25	668806	-	-	-	1	SEAT, relief valve
	926699	-	-	-	4	SCREW, fil-hd., brass, #10-24NC x 3/8"

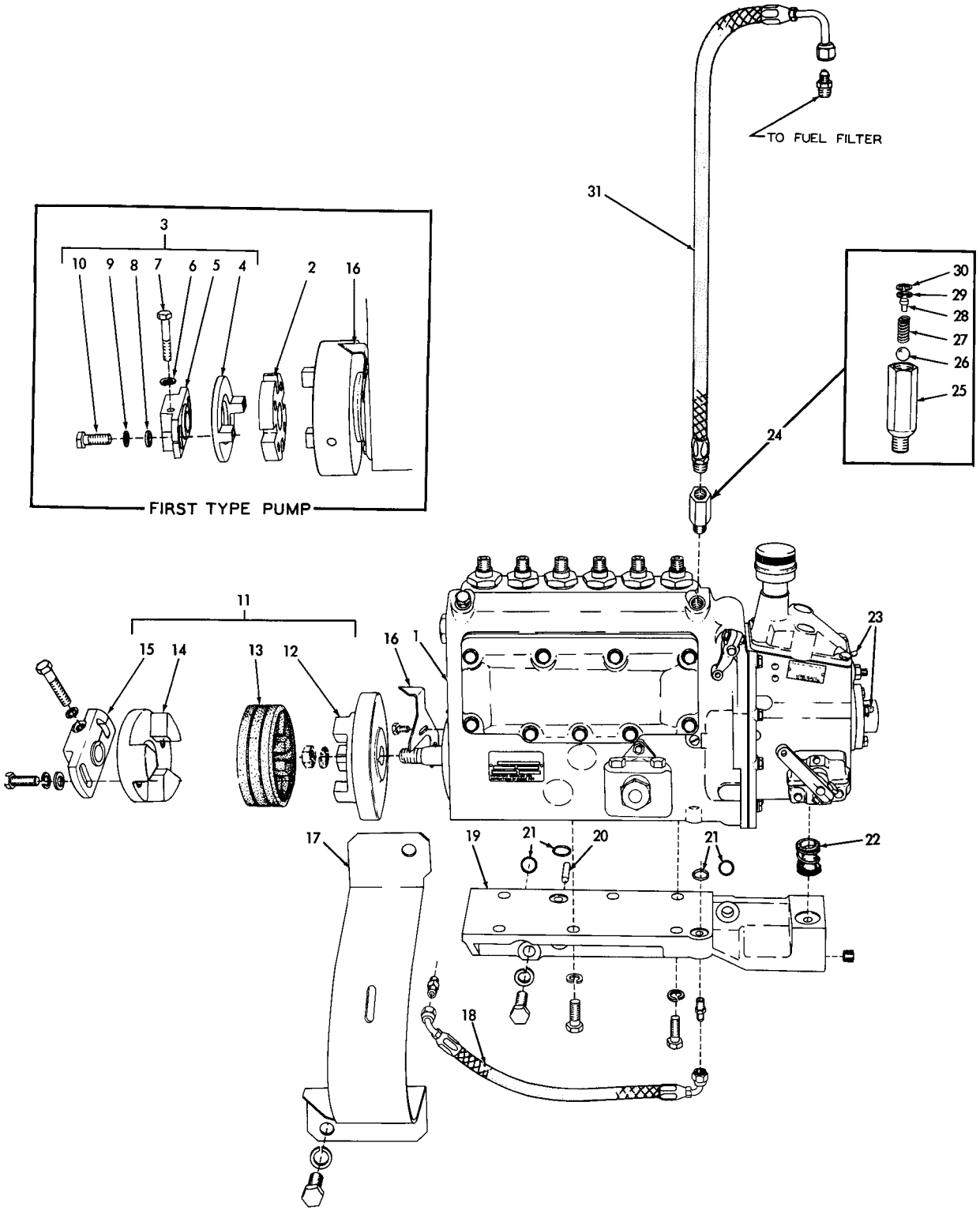
(Continued)

FUEL TANK (Continued)

ITEM	PART NO.	QUANTITY *	**	Δ	ΔΔ	DESCRIPTION
26	668804	-	-	-	1	GASKET, valve seat
27	668805	-	-	-	1	VALVE ASSY., relief (Serviced only as a unit)
28	664867	-	-	-	1	ELEMENT, air filter
29	668262	-	-	-	1	COVER, tank cap
	921181	-	-	-	2	SCREW ASSY., #10-24NC x 1/2"(Includes lockwasher.)
30	083955	1	1	1	1	ELBOW, fuel tank drain
	070469	2	2	2	2	CAPSCREW, 1/2"NF x 1-1/4"
	904208	2	2	2	2	LOCKWASHER, 1/2"
31	923813	1	1	1	1	O-RING, fuel tank drain elbow
32	050594	1	1	1	1	PLUG, drain elbow clean-out
33	050595	1	1	1	1	GASKET, drain elbow clean-out plug
34	633519	1	1	1	1	COCK, drain
35	642441	4	4	4	4	SNUBBER, vibration
36	035068	4	4	4	4	CAPSCREW, 1/2"NF x 2-1/4"
37	092163	8	8	8	8	WASHER, plain

NOTE: See PAINTING AND MARKING for transfers applied to rear of tank

MEMO



FUEL INJECTION PUMP T-37181

FUEL INJECTION PUMP

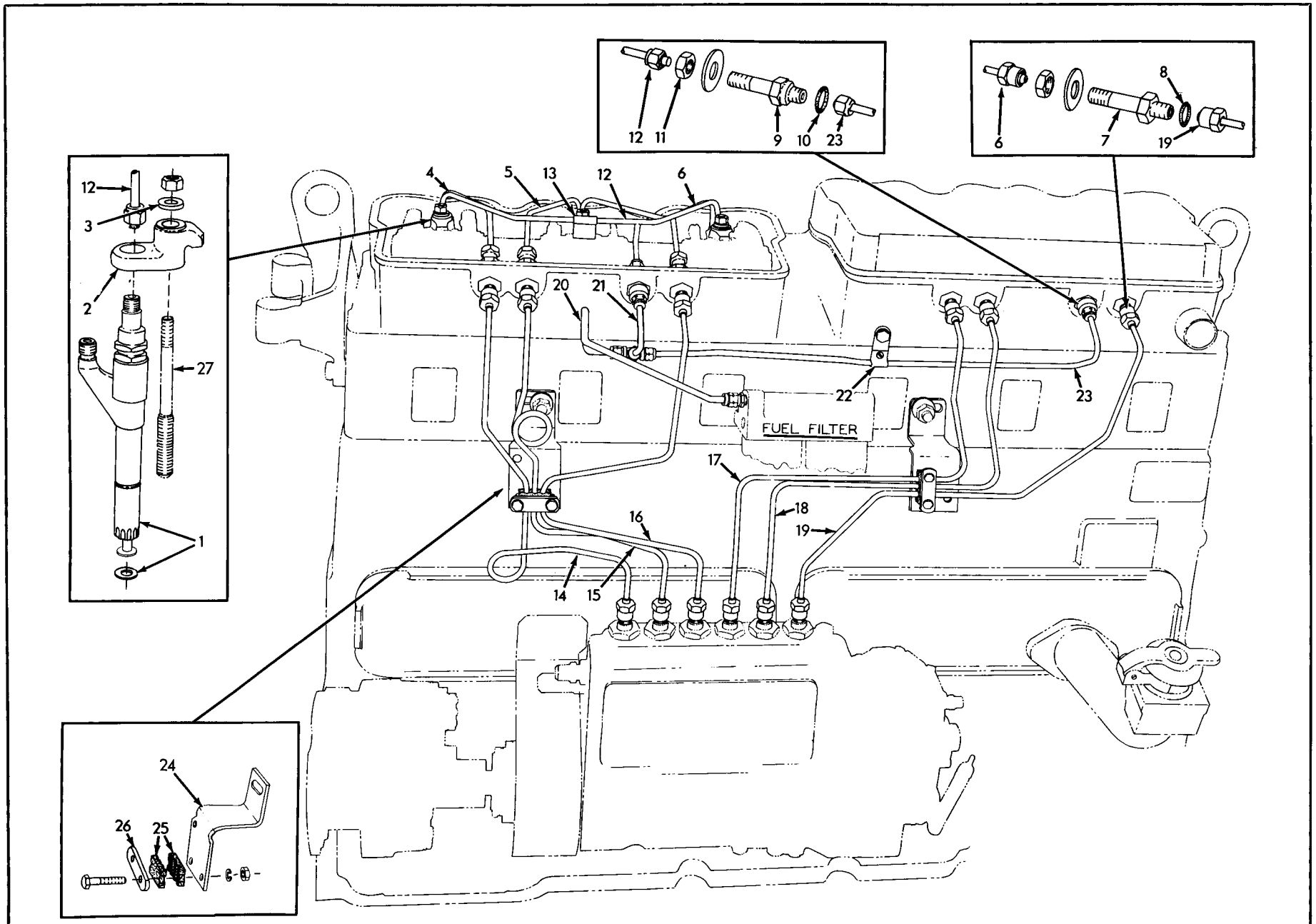
* 21000 H Engine
** 21000-Mark II Engine

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	4389469	1	-	PUMP ASSEMBLY, injection (Includes items 2, 3 and 16)
	4390709	-	1	PUMP ASSEMBLY, injection (Includes items 11 and 16)
	919228	4	4	CAPSCREW, 7/16"NC x 1-1/8"
	918801	2	2	CAPSCREW, 7/16"NC x 1-5/8"
	904207	6	6	LOCKWASHER, 7/16"
2	4379813	1	-	DISC, injection pump coupling
3	4371714	1	-	COUPLING ASSEMBLY, injection pump drive (Consists of items 4 thru 10)
4	4371716	1	-	FLANGE, injection pump drive coupling
5	4371715	1	-	HUB, injection pump drive coupling
	905845	1	-	KEY, #A woodruff, 1/4" x 7/8"
6	4371720	1	-	LOCKWASHER, hub clamping screw
7	4371719	1	-	SCREW, clamping, coupling hub
8	4371718	2	-	WASHER, serrated, coupling capscrew
9	4371721	2	-	LOCKWASHER, hub clamping screw
10	4371717	2	-	CAPSCREW, injection pump drive coupling
11	4390054	-	1	COUPLING ASSEMBLY, pump drive (Consists of items 12 thru 15)
12	4059012	-	1	HUB, coupling
13	4059013	-	1	SPIDER, coupling (rubber)
14	4059014	-	1	FLANGE, coupling
15	4390055	-	1	CLAMP, coupling
	916385	-	1	CAPSCREW, 3/8"NF x 2" (clamping)
	916271	-	2	CAPSCREW, 3/8"NC x 1" (attaching)
	904206	-	3	LOCKWASHER, 3/8"
	4059015	-	2	WASHER, plain
16	4379077	1	1	POINTER, timing
17	4379076	1	1	GUARD, pump flywheel
	916310	1	1	CAPSCREW, 1/2"NC x 1"
	904208	1	1	LOCKWASHER, 1/2"
18	4386773	1	1	HOSE ASSEMBLY, oil supply (See HOSE PARTS)
	919778	1	1	CONNECTOR, flare type, 5/16" tube, 1/4"NPT male
	919766	1	1	CONNECTOR, flare type, 5/16" tube, 1/8"NPT male
19	4376529	1	1	BRACKET, pump mounting
	918850	1	1	PLUG, pipe, hex-socket, 1/4"NPT
	916311	4	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	4	LOCKWASHER, 1/2"

(Continued)

FUEL INJECTION PUMP (Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
20	4253286	2	2	PIN, dowel, mounting bracket
21	4255665	4	4	□O-RING, mounting bracket
22	4379038	1	1	COUPLING, oil drain, pump to bracket
23	4355843	3	3	SEAL, anti-tampering
24	4337015	1	1	VALVE ASSEMBLY, pressure relief (Consists of items 25 thru 30)
25	------	1	1	BODY, relief valve (Not serviced separately)
26	4337022	1	1	BALL, relief valve
27	4337023	1	1	SPRING, relief valve
28	4337019	1	1	STOP, relief valve
29	4255017	1	1	E-RING, relief valve stop
30	4255020	1	1	RING, snap, relief valve
31	4386770	1	1	HOSE ASSEMBLY, fuel return (See HOSE PARTS)
	919062	1	1	CONNECTOR, flare type, 3/8" tube, 1/4" NPT male



T-39341

INJECTION NOZZLES AND LINES

INJECTION NOZZLES AND LINES

* 21000H Engine
** 21000-Mark II Engine

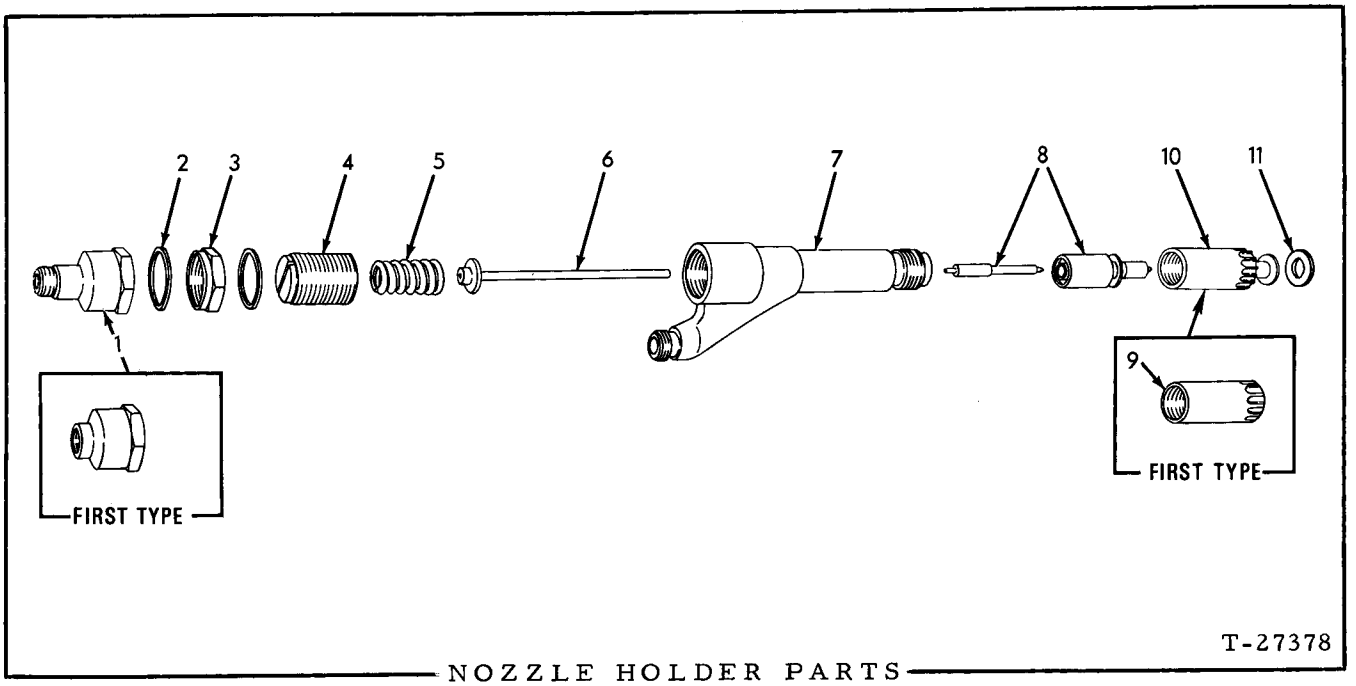
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION	
1	4390625	6	-	HOLDER ASSEMBLY, nozzle	See page 65 for parts
	4391957	-	6	HOLDER ASSEMBLY, nozzle (Engines prior to #21-09775	
	4392121	-	6	HOLDER ASSEMBLY, nozzle (Engines #21-09775 and up)	
2	4387385	6	6	CLAMP, nozzle holder	
	4115287	6	6	NUT, 3/8"NF	
3	4020145	6	6	WASHER, nozzle holder clamp	
4	4386434	2	-	TUBE ASSEMBLY, fuel injection, internal	#1 and #4 cylinders. Each includes nuts.
	4390093	-	2	TUBE ASSEMBLY, fuel injection, internal	
5	4386435	2	-	TUBE ASSEMBLY, fuel injection, internal	#2 and #5 cylinders. Each includes nuts.
	4390094	-	2	TUBE ASSEMBLY, fuel injection, internal	
6	4386436	2	-	TUBE ASSEMBLY, fuel injection, internal	#3 and #6 cylinders. Each includes nuts.
	4390095	-	2	TUBE ASSEMBLY, fuel injection, internal	
7	4386601	6	6	CONNECTOR, injection line	
	919303	6	6	NUT, jam, 9/16"NF	
	914659	6	6	WASHER, plain, SAE std., 9/16"	
8	923645	6	6	□O-RING, injection line connector	
9	4386602	2	2	CONNECTOR, fuel return line	
10	923645	2	2	□O-RING, return line connector	
11	4377267	2	2	NUT, return line connector (1/2" - 24)	
	914659	2	2	WASHER, plain, SAE std., 9/16"	
12	4386433	2	2	MANIFOLD ASSEMBLY, fuel return (Includes NUTS and SLEEVES indented below)	
	917809	8	8	NUT, Imperial, 1/4" tube	
	4255956	8	8	□SLEEVE, Imperial, 1/4" tube (rubber)	
	919800	6	-	CONNECTOR, Imperial, 1/4" tube, 1/8"NPT male (Engines prior to #21-07463)	
13	4255179	2	2	CLIP, manifold supporting	
14	4386546	1	-	TUBE ASSEMBLY, fuel injection, external	#1 cylinder. Each includes nuts.
	4390085	-	1	TUBE ASSEMBLY, fuel injection, external	
15	4386547	1	-	TUBE ASSEMBLY, fuel injection, external	#2 cylinder, Each includes nuts.
	4390086	-	1	TUBE ASSEMBLY, fuel injection, external	
16	4387647	1	-	TUBE ASSEMBLY, fuel injection, external	#3 cylinder. Each includes nuts.
	4390087	-	1	TUBE ASSEMBLY, fuel injection, external	
17	4386549	1	-	TUBE ASSEMBLY, fuel injection, external	#4 cylinder. Each includes nuts.
	4390088	-	1	TUBE ASSEMBLY, fuel injection, external	

(Continued)

INJECTION NOZZLES AND LINES (Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION	
18	4386550	1	-	TUBE ASSEMBLY, fuel injection, external	#5 cylinder. Each includes nuts.
	4390089	-	1	TUBE ASSEMBLY, fuel injection, external	
19	4386551	1	-	TUBE ASSEMBLY, fuel injection, external	#6 cylinder. Each includes nuts.
	4390090	-	1	TUBE ASSEMBLY, fuel injection, external	
20	4387301	1	1	TUBE ASSEMBLY, fuel return (Includes NUTS and SLEEVES indented below)	
	917809	2	2	NUT, Imperial, 1/4" tube	
	917806	2	2	□SLEEVE, Imperial, 1/4" tube (rubber)	
	919797	1	1	TEE, Imperial, 1/4" tube	
	920242	1	1	CONNECTOR, Imperial, 1/4" tube, 1/4"NPT male	
21	4377266	1	1	TUBE ASSEMBLY, fuel return, front (Includes NUTS and SLEEVES indented below)	
	917809	2	2	NUT, Imperial, 1/4" tube	
	917806	2	2	□SLEEVE, Imperial, 1/4" tube (rubber)	
22	4386617	1	1	CLIP, fuel return tube	
	901171	1	1	SCREW, machine, #10-24NC x 3/8"	
	904203	1	1	LOCKWASHER, #10	
	901310	1	1	NUT, #10-24NC	
	915408	1	1	CAPSCREW, 3/8"NC x 3/4"	
	904206	1	1	LOCKWASHER, 3/8"	
	911115	1	1	WASHER, plain, SAE std., 3/8"	
23	4379737	1	1	TUBE ASSEMBLY, fuel return, rear (Includes NUTS and SLEEVES indented below)	
	917809	2	2	NUT, Imperial, 1/4" tube	
	917806	2	2	□SLEEVE, Imperial, 1/4" tube (rubber)	
24	4388148	2	2	BRACKET, supporting, injection lines	
25	4507359	4	4	SPACER, injection lines (rubber)	
26	4507415	2	2	PLATE, clamping, rear injection lines	
	918794	4	4	CAPSCREW, 1/4"NC x 1-3/8"	
	904204	4	4	LOCKWASHER, 1/4"	
	910880	4	4	NUT, 1/4"NC	
27	------	-	-	STUD, nozzle holder clamp (See VALVE OPERATING MECHANISM)	

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

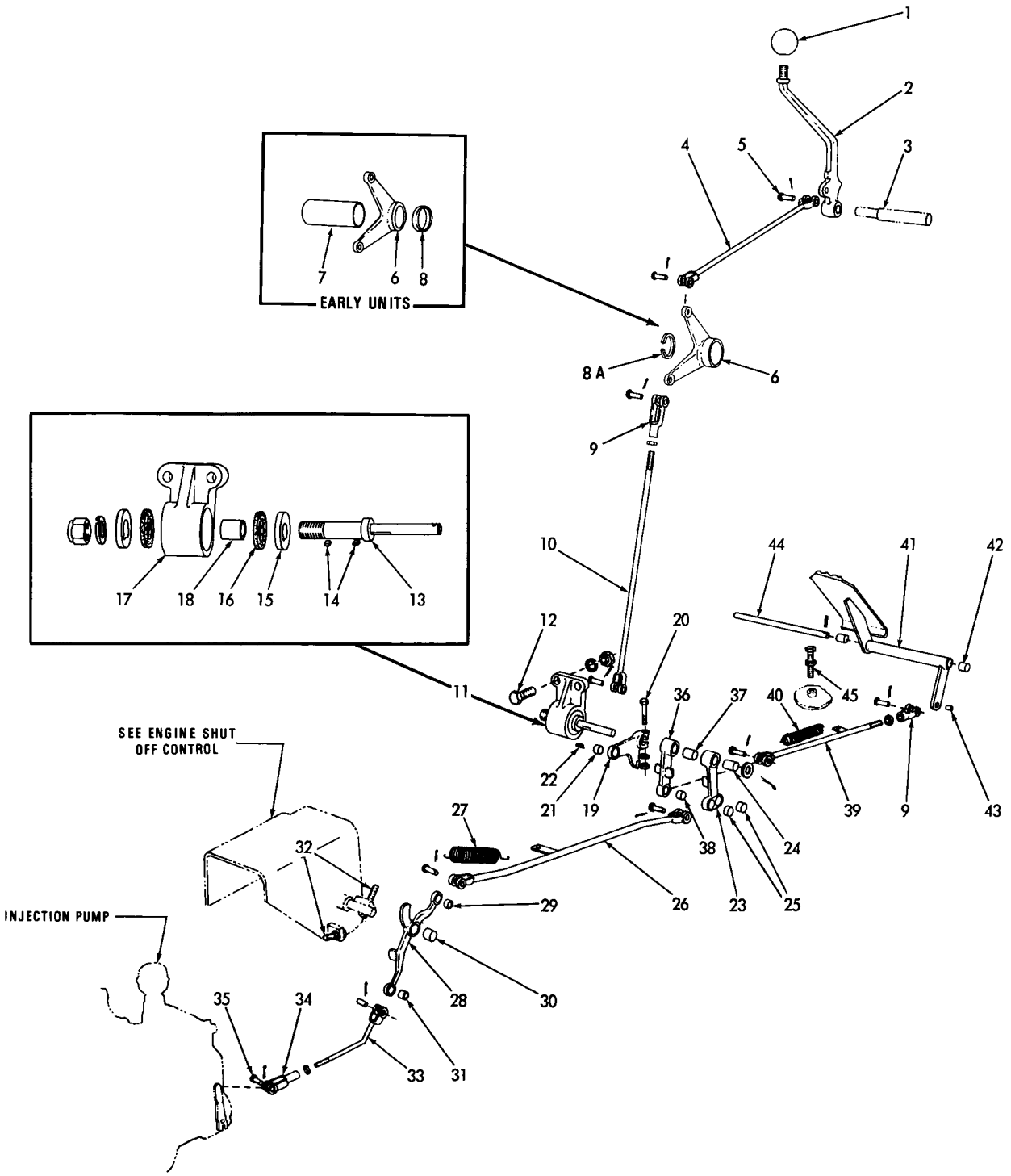


NOZZLE HOLDER PARTS

* 4390625 HOLDER ASSEMBLY
** 4391957 HOLDER ASSEMBLY
△ 4392121 HOLDER ASSEMBLY

See page 63

ITEM	PART NO.	QTY. *	QTY. **	QTY. △	DESCRIPTION
					NOTE: Quantities are for one (1) Holder Assembly only
1	4378032	1	-	-	CAP (Engines prior to #21-07463)
	4021227	1	1	1	CAP (Engines #21-07463 and up)
2	4511243	2	2	2	GASKET, cap nut
3	4511213	1	1	1	NUT, locking
4	4378033	1	1	1	SCREW, adjusting
5	4380652	1	1	1	SPRING
6	4391240	1	1	1	SPINDLE
7	------	1	1	1	BODY (Not serviced separately)
8	4386837	1	-	-	NOZZLE ASSEMBLY } Each includes item 11
	4390006	-	1	1	NOZZLE ASSEMBLY } Each includes item 11
9	4390619	1	1	-	NUT, nozzle retaining
10	4392057	-	-	1	NUT, nozzle retaining
11	4378031	1	1	1	□GASKET, nozzle



T-70591

THROTTLE CONTROL

THROTTLE CONTROL

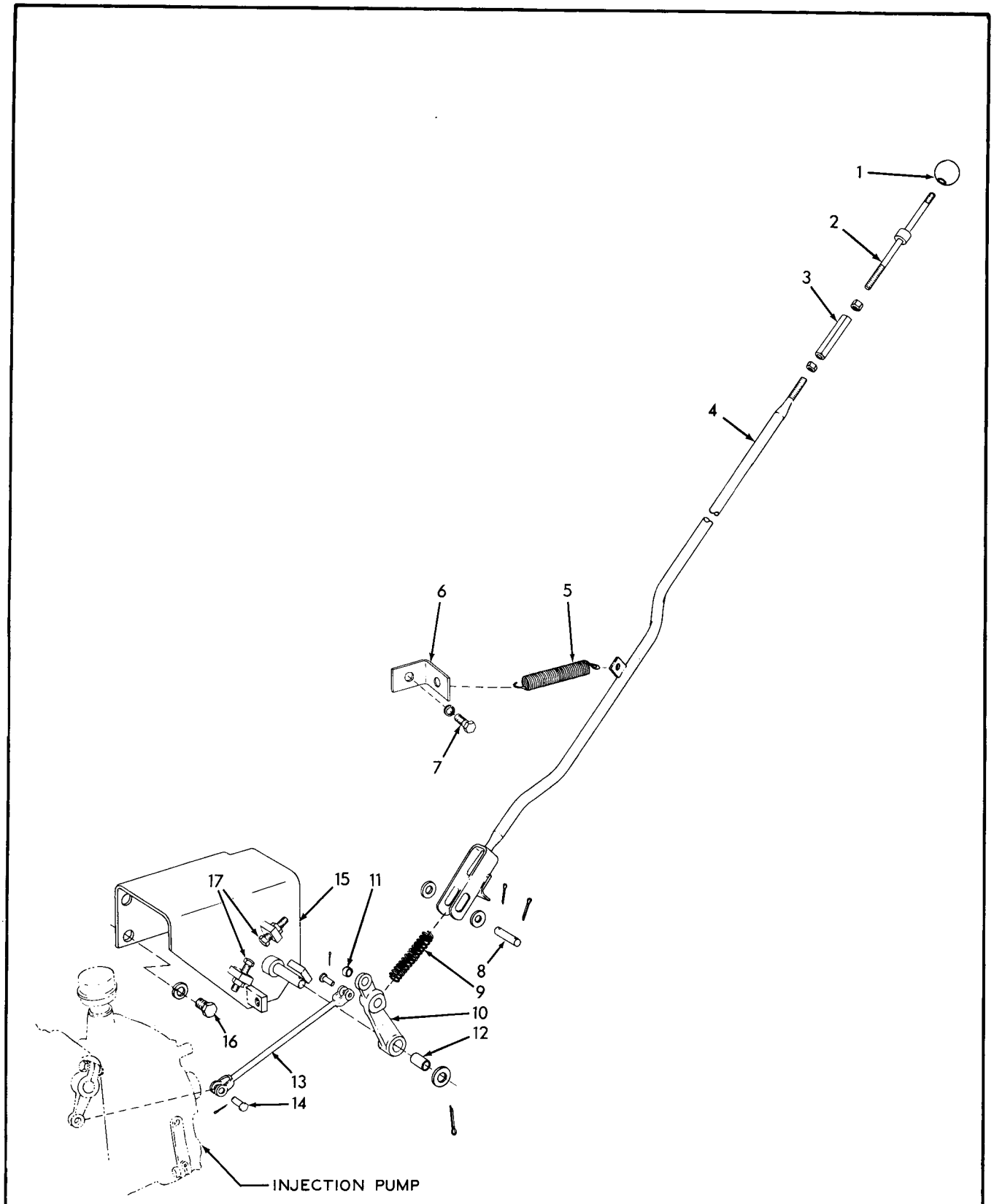
ITEM	PART NO.	QTY.	DESCRIPTION
1	090020	1	KNOB, operating lever
2	631975	1	LEVER, operating
3	------	1	SHAFT, operating lever (See STEERING LEVERS AND LINKAGE)
4	632059	1	ROD, upper
5	078810	8	PIN, yoke, control rod
	900942	8	PIN, cotter 3/32" x 5/8"
6	081094	1	BELLCRANK, upper rod
7	096409	1	SPACER, bellcrank (4-3/16" long)(Loaders prior to #14259)
8	081132	1	SPACER, bellcrank (5/16" thick)(Loaders prior to #14259
8A	052225	1	RING, snap, bellcrank retaining (Loaders #14259 and up)
9	628736	2	YOKE, control rod
10	630856	1	ROD, intermediate, upper
	911048	1	NUT, jam, 3/8"NF
11	631683	1	FRICTION ASSEMBLY (Includes items 13 thru 18)
12	614478	2	CAPSCREW, 1/2"NF x 1-3/8"
	904208	2	LOCKWASHER, 1/2"
	910244	1	WASHER, plain, SAE std., 1/2"
	900806	1	PIN, cotter, 1/8" x 1"
13	631682	1	SHAFT, friction
	904369	1	LOCKWASHER, 3/4"
	916591	1	NUT, elastic stop, 3/4"NF
14	632716	2	KEY, friction washer
15	632710	2	WASHER, friction
16	632747	2	DISC, friction
17	632766	1	HOUSING ASSEMBLY, friction (Includes item 18)
18	632752	1	BUSHING, friction housing
19	631494	1	LEVER ASSEMBLY, friction shaft (Includes item 21)
20	041981	1	CAPSCREW, 5/16"NF x 1-1/2"
	904205	1	LOCKWASHER, 5/16"
	913636	1	NUT, 5/16"NF
21	624584	1	BUSHING, friction shaft lever
22	632756	1	KEY, friction shaft lever
23	631496	1	LEVER ASSEMBLY, intermediate lower rod (Includes items 24 and 25)
24	631476	1	BUSHING, intermediate lower rod lever (large)
25	624584	2	BUSHING, intermediate lower rod lever (small)
26	631663	1	ROD, intermediate, lower (Standard)
	631662	1	ROD, intermediate, lower (Used with special GROUND SPEED GOVERNOR)

(Continued)

THROTTLE CONTROL (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
27	043881	1	SPRING, retracting (Not used with special GROUND SPEED GOVERNOR)
28	642165	1	BELLCRANK ASSEMBLY, lower rod (Includes items 29, 30 and 31)
29	624584	1	BUSHING, bellcrank (3/8" long)
30	631476	1	BUSHING, bellcrank (7/8" long)
31	624585	1	BUSHING, bellcrank (1/4" long)
32	634650	2	CAPSCREW, lever stop (3/8"NC x 1-1/2")
	911034	2	NUT, jam, 3/8"NC
33	644633	1	ROD, lower
	910267	1	NUT, jam, 1/4"NF
34	628737	1	YOKE, lower rod
35	628738	2	PIN, yoke, lower rod
	900970	2	PIN, cotter, 1/16" x 1/2"
36	631498	1	LEVER ASSEMBLY, decelerator rod (Includes items 37 and 38)
37	631476	1	BUSHING, decelerator lever (large)
38	624584	1	BUSHING, decelerator lever (small)
39	631651	1	ROD, decelerator (Standard)
	631777	1	ROD, decelerator (Used with special GROUND SPEED GOVERNOR)
	911048	1	NUT, jam, 3/8"NF
40	072438	1	SPRING, retracting, decelerator rod (Used only with special GROUND SPEED GOVERNOR)
41	631488	1	PEDAL ASSEMBLY, decelerator (Includes items 42 and 43)
42	063222	2	BUSHING, decelerator pedal (large)
43	624584	1	BUSHING, decelerator pedal (small)
44	630777	1	SHAFT, decelerator pedal
	918111	1	PIN, spring, 1/8" x 1"
45	089900	1	CAPSCREW, pedal stop (1/2"NF)(Early units)
	913830	1	NUT, jam, 1/2"NF
	648477	1	CAPSCREW, pedal stop (1/2"NC)(Late units)
	911035	1	NUT, jam, 1/2"NC

MEMO



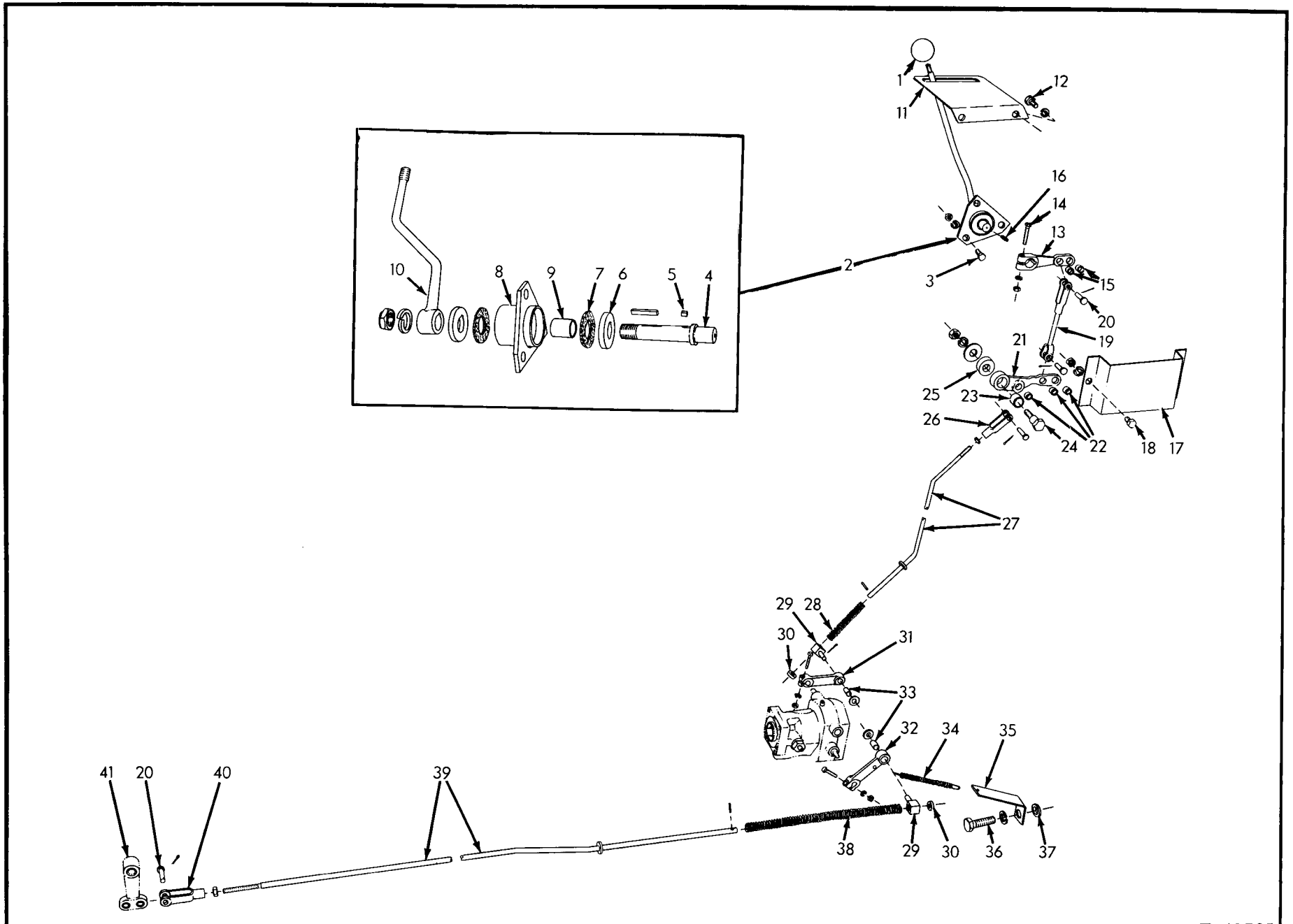
T-40613

ENGINE SHUT-OFF CONTROL

ENGINE SHUT-OFF CONTROL

ITEM	PART NO.	QTY.	DESCRIPTION
1	659075	1	KNOB, shut-off rod
2	631555	1	ROD, upper
	919763	1	NUT, 3/8"NF (left-hand thread)
3	095421	1	NUT, control adjustment
4	650392	1	ROD, intermediate (Standard units)
	630794	1	ROD, intermediate (Units with special GROUND SPEED GOVERNOR)
	911048	1	NUT, jam, 3/8"NF
5	072438	1	SPRING, retracting
6	093976	1	ANGLE, retracting spring (Effective with loader #14577)
7	035244	1	CAPSCREW, 3/4"NC x 3/4"
	904206	1	LOCKWASHER, 3/8"
8	631477	1	PIN, yoke, intermediate rod
	911115	2	WASHER, plain, SAE, std., 3/3"
	900942	2	PIN, cotter, 3/32" x 5/8"
9	630745	1	SPRING, intermediate rod (Units with GROUND SPEED GOVERNOR only)
10	631492	1	LEVER ASSEMBLY, intermediate rod (Includes items 11 and 12)
11	624585	1	BUSHING, intermediate rod lever (small)
12	631476	1	BUSHING, intermediate rod lever (large)
13	630311	1	ROD, lower
14	628738	2	PIN, yoke, lower rod
	900970	2	PIN, cotter, 1/16" x 1/2"
15	631425	1	BRACKET, supporting, control linkage
	910244	1	WASHER, plain, SAE std., 1/2"
	900806	1	PIN, cotter, 1/8" x 1"
16	097494	3	CAPSCREW, Nylok, 1/2"NC x 1"
	904208	3	LOCKWASHER, 1/2"
17	634650	2	CAPSCREW, lever stop (3/8"NC x 1-1/2")
	911034	2	NUT, jam, 3/8"NC

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



GOVERNOR CONTROL LINKAGE

T-41785

GOVERNOR CONTROL LINKAGE

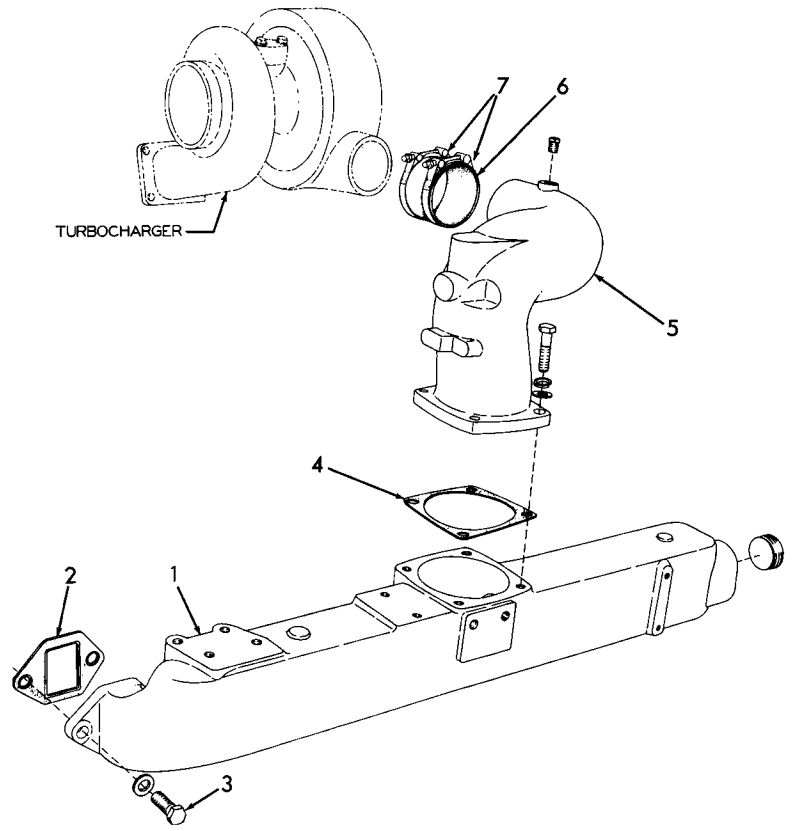
USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	090020	1	KNOB, friction lever
2	632178	1	FRICTION ASSEMBLY (Includes items 4 thru 10)
3	035167	3	CAPSCREW, 3/8"NF x 7/8"
	904206	3	LOCKWASHER, 3/8"
	911041	3	NUT, 3/8"NF
4	632162	1	SHAFT, friction
	915569	1	KEY, straight, 3/16" x 3/16" x 1-1/8"
	904369	1	LOCKWASHER, 3/4"
	914452	1	NUT, elastic stop, 3/4"NF
5	632716	1	KEY, friction washer
6	632710	2	WASHER, friction
7	632747	2	DISC, friction
8	632771	1	HOUSING ASSEMBLY, friction (Includes item 9)
9	632752	1	BUSHING, friction housing
10	633216	1	LEVER, friction
11	632177	1	GUIDE, friction lever
12	916268	2	CAPSCREW, 3/8"NC x 5/8"
	904206	2	LOCKWASHER, 3/8"
13	640415	1	LEVER ASSEMBLY, upper rod (Includes item 15)
14	041981	1	CAPSCREW, 5/16"NF x 1-1/2"
	904205	1	LOCKWASHER, 5/16"
	913636	1	NUT, 5/16"NF
15	624584	2	BUSHING, upper rod lever
16	632756	1	KEY, upper rod lever
17	632175	1	SHIELD, protecting
18	035979	2	CAPSCREW, 3/8"NF x 5/8"
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
19	640489	1	ROD, upper
20	078810	4	PIN, control rod yoke
	900942	4	PIN, cotter, 3/32" x 5/8"
21	640378	1	LEVER ASSEMBLY, intermediate rod (Includes items 22 and 23)
22	624584	3	BUSHING, intermediate rod lever (small)
23	639785	1	BUSHING, intermediate rod lever (large)
24	640367	1	CAPSCREW, pivot, intermediate rod lever
	900818	1	WASHER, plain, U.S. std., 1/2"
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
25	091553	1	SPACER, intermediate rod lever

(Continued)

GOVERNOR CONTROL LINKAGE (Continued)

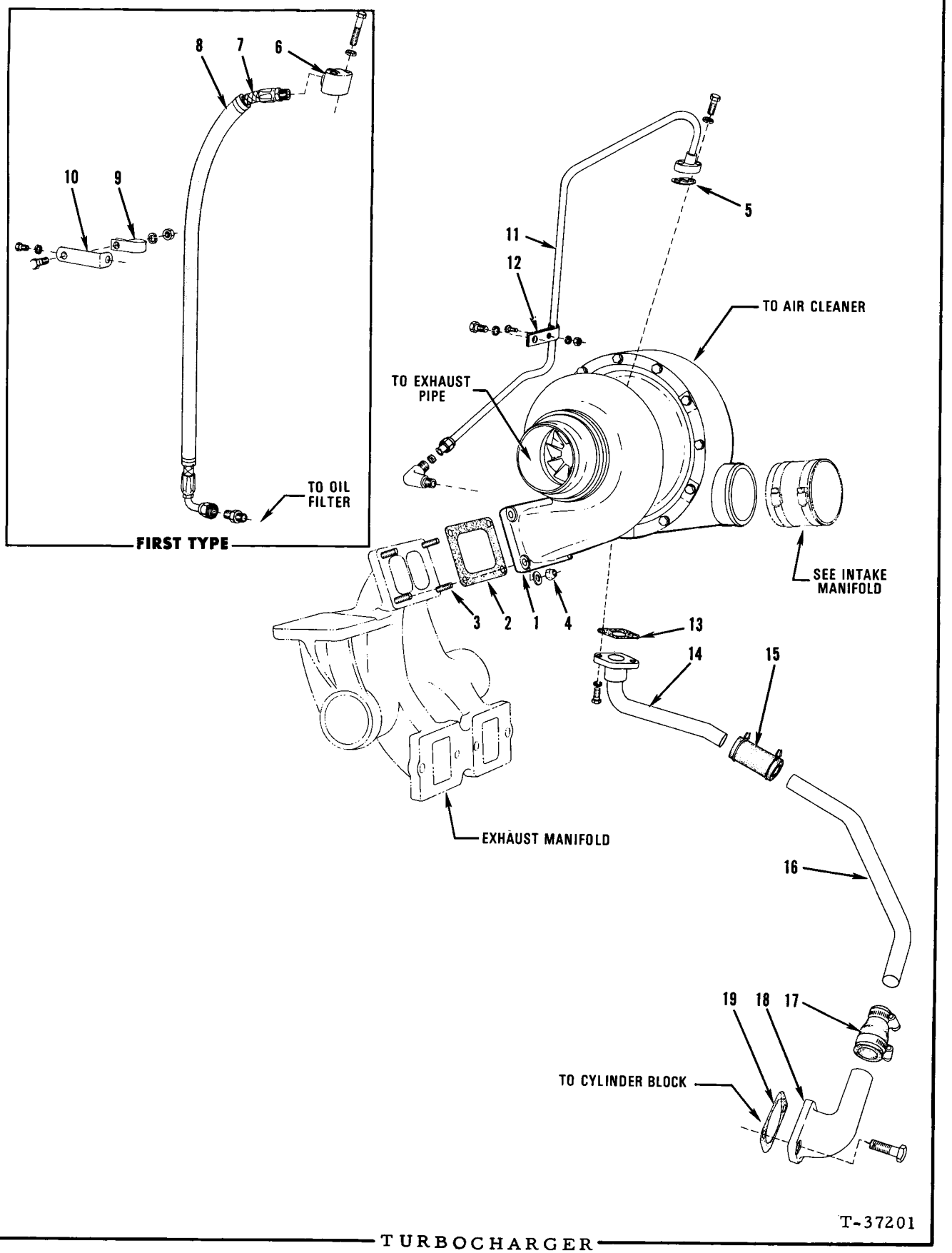
ITEM	PART NO.	QTY.	DESCRIPTION
26	628736	1	YOKE, intermediate rod
27	642597	1	ROD, intermediate
	911048	1	NUT, jam, 3/8"NF
	916168	1	PIN, roll, 1/8" x 3/4"
28	070212	1	SPRING, intermediate rod
29	628116	2	EYE, swivel, governor lever
	911115	2	WASHER, plain, SAE std., 3/8"
	900942	2	PIN, cotter, 3/32" x 5/8"
30	081672	2	SPACER, control rod
31	624624	1	LEVER ASSEMBLY, governor inner (Includes item 33)
	912177	1	CAPSCREW, 1/4"NF x 1-1/4"
	904204	1	LOCKWASHER, 1/4"
	911040	1	NUT, 1/4"NF
32	630331	1	LEVER ASSEMBLY, governor, outer, (Includes item 33)
	912177	1	CAPSCREW, 1/4"NF x 1-1/4"
	904204	1	LOCKWASHER, 1/4"
	911040	1	NUT, 1/4"NF
33	628138	2	BUSHING, governor lever
34	621614	1	SPRING, retracting governor lever
35	631478	1	CLIP, spring retaining
36	035229	1	CAPSCREW, 5/8"NF x 2"
	904209	1	LOCKWASHER, 5/8"
37	060553	1	WASHER, plain (For spacing)
38	088491	1	SPRING, lower rod
39	631776	1	ROD, lower
	911048	1	NUT, jam, 3/8"NF
	916168	1	PIN, roll, 1/8" x 3/4"
40	628736	1	YOKE, lower rod
41	------	1	LEVER (See THROTTLE CONTROL)



T-36260

INTAKE MANIFOLD

ITEM	PART NO.	QTY.	DESCRIPTION
1	4386948	1	MANIFOLD, intake
	901668	1	PLUG, pipe, ctsk-hd., 1-1/2"NPT
2	4387697	6	□GASKET, intake manifold
3	4255895	8	CAPSCREW, manifold attaching (1-1/4" long)
	4255914	4	CAPSCREW, manifold attaching (1-1/2" long)
	910244	12	WASHER, plain SAE std., 1/2"
4	4361551	1	□GASKET, elbow to manifold
5	4386611	1	ELBOW, air intake (See page 84 for special elbow used with Air Heater System)
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT (Not used when engine primer is installed)
	919230	4	CAPSCREW, 1/2"NC x 1-3/8"
	904208	4	LOCKWASHER, 1/2"
	912333	4	WASHER, plain
6	4391131	1	HOSE, elbow to turbocharger
7	4255881	2	CLAMP, hose



TURBOCHARGER

* Engines prior to serial No. 21-10093
** Engines serial No. 21-10093 and up

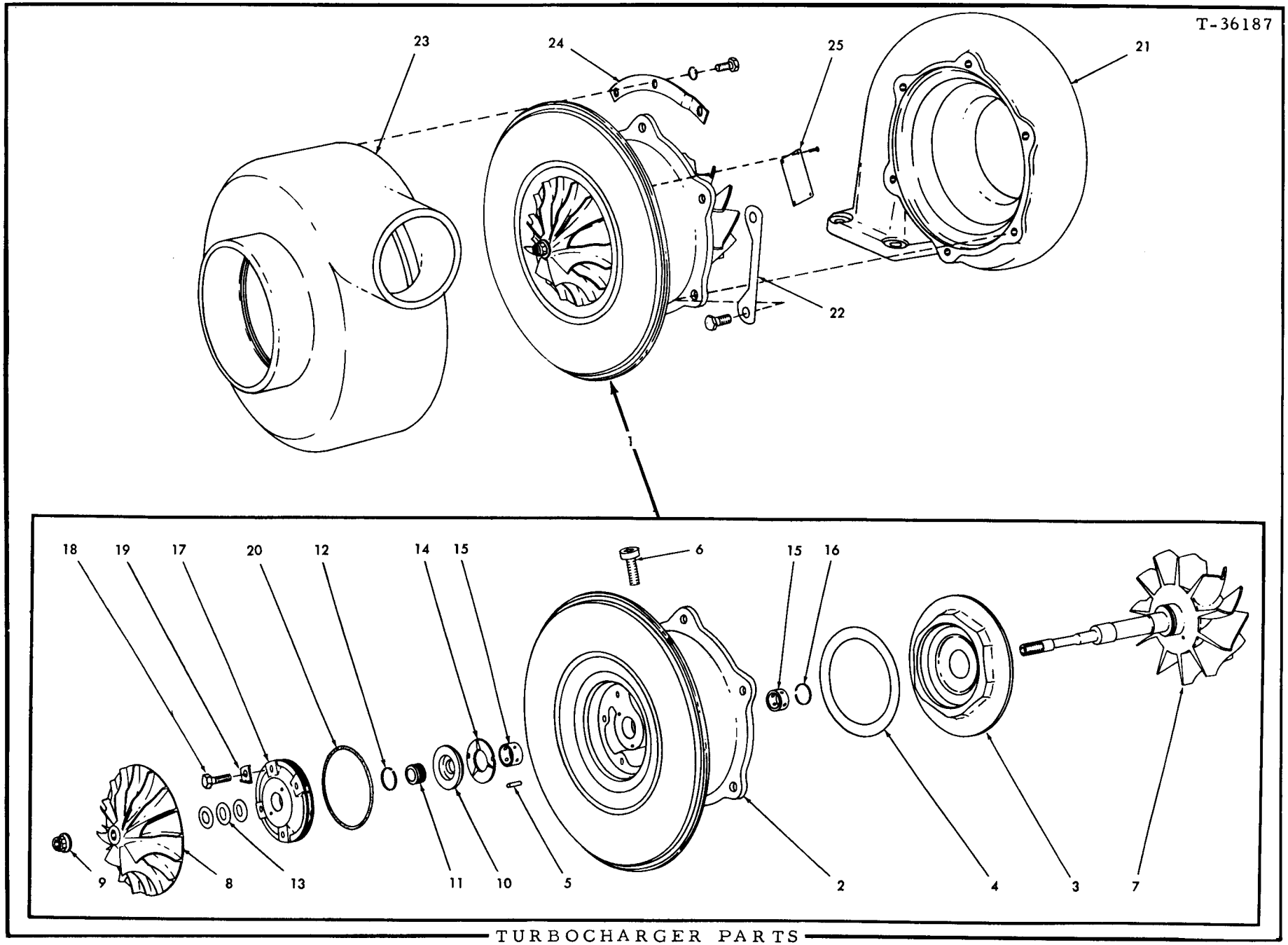
ITEM	PART NO.	*	**	DESCRIPTION
1	4389023	1	-	TURBOCHARGER ASSY. (Model T-1817)(Used prior to engine #21-06362. Order TURBOCHARGER 4390769)
	4389968	1	-	TURBOCHARGER ASSY. (Model T-1817)(Effective with engine #21-06362 but later superseded by TURBOCHARGER 4390769)(Order TURBOCHARGER 4390769)
	4390769	1	-	TURBOCHARGER ASSY. (Model T-1818)(Engines prior to #21-10019)
	4391962	1	1	TURBOCHARGER ASSY. (Model T-1818)(Engines #21-10019 and up)(See page 79A for parts)
2	4336558	1	1	□GASKET, turbocharger to manifold
3	4339535	4	4	STUD, turbocharger attaching
4	4385387	4	4	NUT
	913544	4	4	WASHER, plain
5	4335647	1	1	□GASKET, oil supply line flange
6	4386237	1	-	FLANGE, oil supply line
	919226	2	-	CAPSCREW, 3/8"NC x 1-5/8"
	904206	2	-	LOCKWASHER, 3/8"
7	4386238	1	-	HOSE ASSY., oil supply line (See HOSE PARTS. Also includes item 8)
	919063	1	-	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
8	4379283	1	-	SLEEVE, hose protecting (asbestos)
	920552	2	-	CLAMP, hose, 7/8" diam.
9	4254646	1	-	CLIP, hose supporting
	915408	1	-	CAPSCREW, 3/8"NC x 3/4"
	904206	1	-	LOCKWASHER, 3/8"
	910324	1	-	NUT, 3/8"NC
10	4385412	1	-	BRACKET, hose supporting
	916268	1	-	CAPSCREW, 3/8"NC x 5/8"
	904206	1	-	LOCKWASHER, 3/8"
11	4391996	-	1	TUBE ASSY., oil supply line (Includes NUT and SLEEVE indented below)
	917810	-	1	NUT, Imperial, 3/8" tube
	917807	-	1	SLEEVE, Imperial, 3/8" tube
	919005	-	1	ELBOW, Imperial, 90°, 3/8" tube, 3/8" NPT male
	916269	-	2	CAPSCREW, 3/8"NC x 7/8"
	904206	-	2	LOCKWASHER, 3/8"
12	4254961	-	1	CLAMP, tube supporting
	917393	-	1	SCREW, machine, #8-32
	906964	-	1	LOCKWASHER, #8
	907154	-	1	NUT, #8-32
	916270	-	1	CAPSCREW, 3/8"NC x 1/2"
	904206	-	1	LOCKWASHER, 3/8"
13	4335649	1	1	□GASKET, oil drain line, upper
14	4385614	1	1	TUBE, oil drain line, upper
	916269	2	2	CAPSCREW, 3/8"NC x 7/8"
	904206	2	2	LOCKWASHER, 3/8"
15	4390773	1	1	HOSE, oil drain line
	4255874	2	2	CLAMP, hose

See page 78 for parts

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
16	4379913	1	1	TUBE, oil drain line, lower
17	4379723	1	1	ADAPTER, oil drain line
	921911	1	1	CLAMP, hose (11/16" to 1-1/4" diam.)
	925757	1	1	CLAMP, hose (1-1/4" to 1-15/16" diam.)
18	4379672	1	1	ELBOW, oil drain line
	921865	2	2	CAPSCREW, Nylok, 1/2"NC x 1"
19	4310257	1	1	□ GASKET, oil drain line elbow
20	4387007	1	1	GASKET KIT (Consists of items 2, 5, 13 and 19)(Not illustrated)

□ Indicates components of item 20



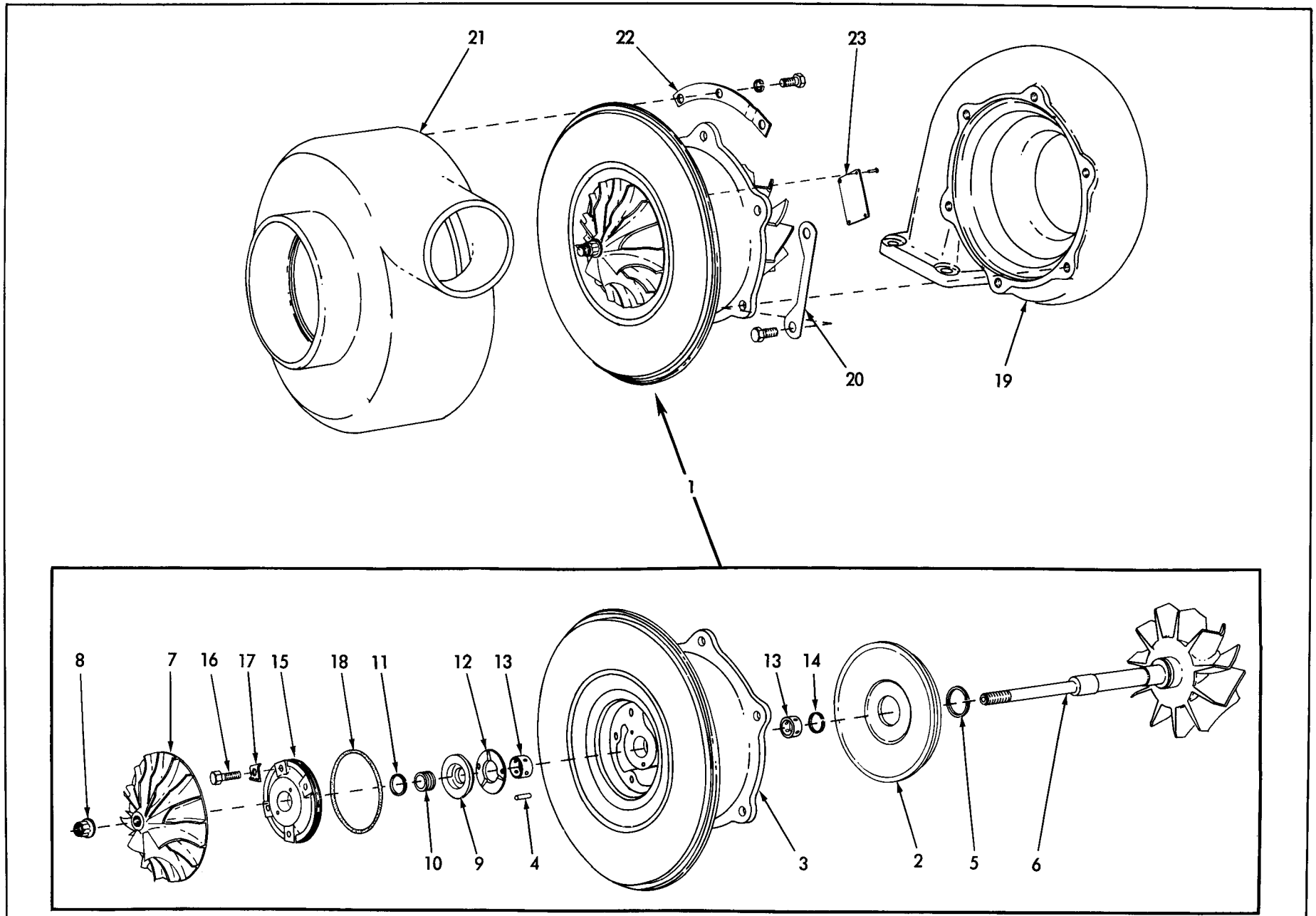
TURBOCHARGER PARTS

TURBOCHARGER PARTS

* TURBOCHARGER ASSEMBLY 4389023
** TURBOCHARGER ASSEMBLY 4389968
△ TURBOCHARGER ASSEMBLY 4390769

See page 77

ITEM	PART NO.	QUANTITY *	**	△	DESCRIPTION	
1	4056616	1	1	-	HOUSING AND ROTATING ASSEMBLY	Each consists of items 2 thru 20
	4059017	-	-	1	HOUSING AND ROTATING ASSEMBLY	
2	-------	1	-	-	HOUSING ASSEMBLY, center (Order HOUSING ASSEMBLY 4056617, 2 BEARINGS 4056295 and 3 snap RINGS 4056296)	
	4056617	-	1	1	HOUSING ASSEMBLY, center (Includes items 3 thru 6)	
3	------	1	1	1	SHROUD, wheel (Not serviced separately)	
4	------	1	1	1	WASHER, locking, wheel shroud (Not serviced separately)	
5	4055187	2	2	2	PIN, dowel, center housing	
6	4055190	1	1	1	PLUG, oil reservoir, center housing	
7	------	1	-	-	SHAFT AND WHEEL (Order 4056620 and IMPELLER 4056621)	
	4056620	-	1	1	SHAFT AND WHEEL	
8	------	1	-	-	IMPELLER (Order 4056621 and SHAFT AND WHEEL 4056620)	
	4056621	-	1	-	IMPELLER	
	4059016	-	-	1	IMPELLER	
9	4055201	1	1	1	NUT, impeller retaining	
10	4056494	1	1	1	RING, thrust	
11	4056339	1	1	1	SPACER, thrust	
12	4055195	1	1	1	RING, sealing	
13	4055197	-	-	-	SHIM, impeller (.002" thick)	Use as required
	4055198	-	-	-	SHIM, impeller (.005" thick)	
	4055199	-	-	-	SHIM, impeller (.010" thick)	
14	4055192	1	1	1	BEARING, thrust	
15	4055191	2	-	-	BEARING, impeller shaft	
	4056295	-	2	2	BEARING, impeller shaft	
16	4255196	3	-	-	RING, snap	
	4056296	-	3	3	RING, snap	
17	4055193	1	1	1	PLATE ASSEMBLY, thrust, center housing (Includes riveted washer)	
18	4055196	4	4	4	CAPSCREW, #10-24NC x 7/8"	
19	4055194	4	4	4	PLATE, locking	
20	4053336	1	1	1	O-RING, thrust plate	
21	4055982	1	1	1	HOUSING, turbine (If for engines prior to #21-05279 also order 6 CAPSCREWS 4056026 and 3 PLATES 4055981)	
	915809	6	-	-	CAPSCREW, 5/16"NC x 3/4" (Used prior to engine #21-05279)	
	4056026	6	6	6	CAPSCREW, 3/8"NC x 3/4" (Effective with engine #21-05279)	
22	4055981	3	3	3	PLATE, capscrew locking	
23	4055202	1	1	-	HOUSING ASSEMBLY, compressor (Includes venturi)	
	4059018	-	-	1	HOUSING ASSEMBLY, compressor (Includes venturi)	
24	4055203	6	6	6	CLAMP, compressor housing	
	915809	12	12	12	CAPSCREW, 5/16"NC x 3/4"	
	917356	12	12	12	LOCKWASHER, plated, 5/16"	
25	4055206	1	1	1	PLATE, name	
	4049009	4	4	4	SCREW, drive	



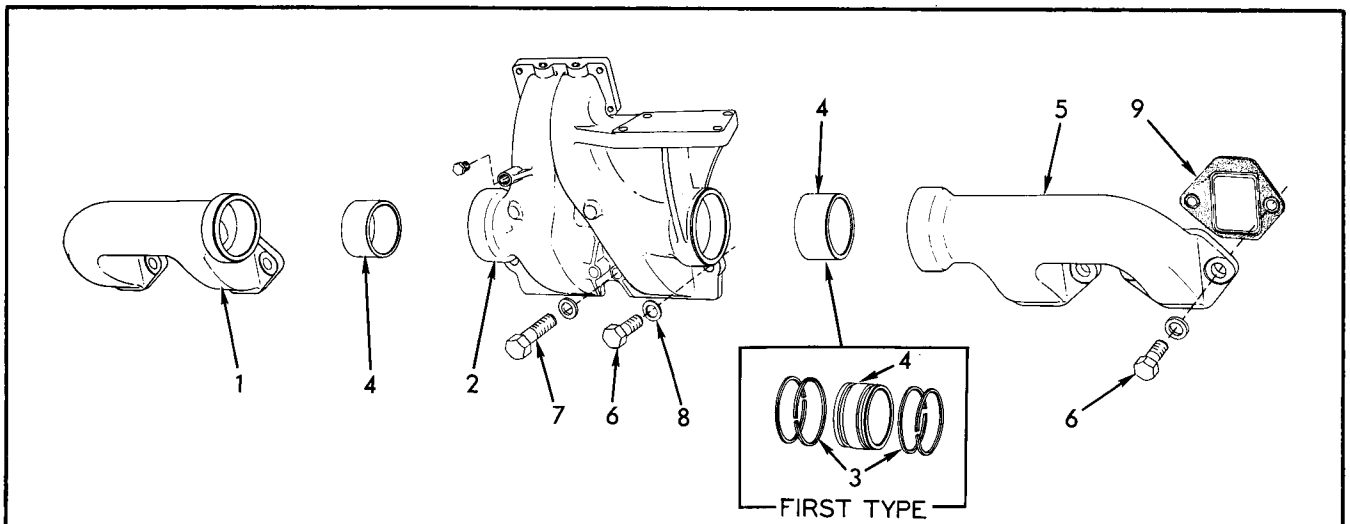
TURBOCHARGER ASSEMBLY 4391962

TURBOCHARGER ASSEMBLY 4391962

USAGE: See page 76

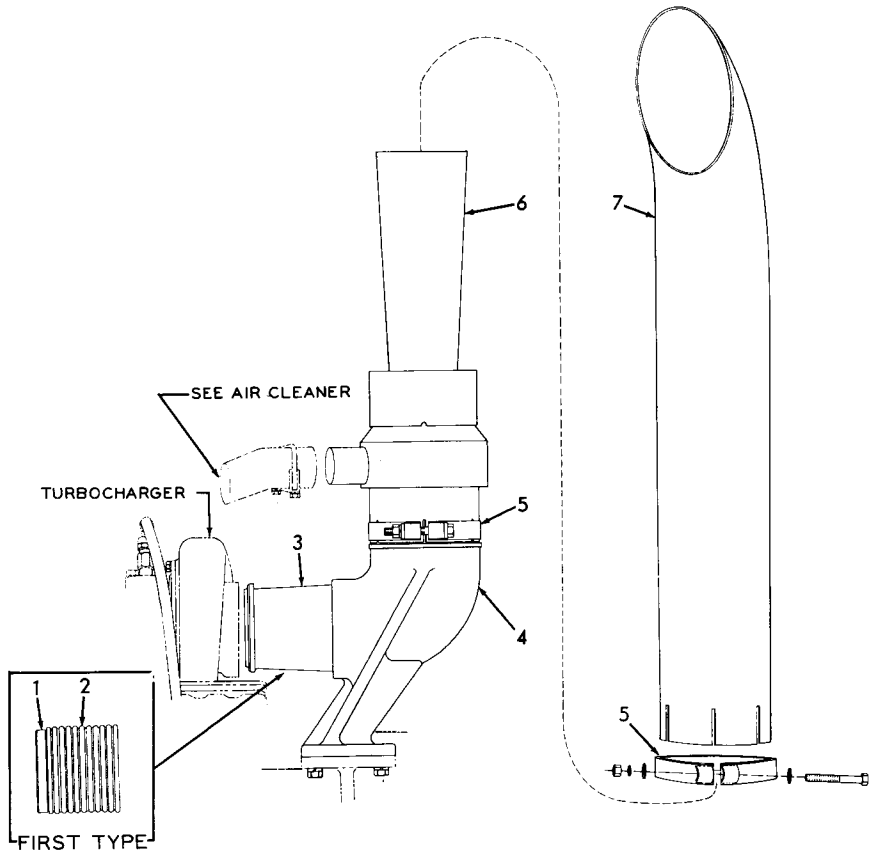
ITEM	PART NO.	QTY.	DESCRIPTION
1	4059751	1	HOUSING AND ROTATING ASSY. (Consists of items 2 thru 18)
2	4059748	1	SHROUD, wheel
3	4059745	1	HOUSING ASSY., center (Includes item 4)
4	4059777	2	PIN, dowel, center housing
5	4059746	1	RING, sealing, shaft
6	4059744	1	SHAFT AND WHEEL
7	4059016	1	IMPELLER
8	4055201	1	NUT, impeller retaining
9	4056494	1	RING, thrust
10	4056339	1	SPACER, thrust
11	4055195	1	RING, sealing
12	4055192	1	BEARING, thrust
13	4056295	2	BEARING, impeller shaft
14	4056296	3	RING, snap
15	4055193	1	PLATE ASSY., thrust, center housing (Includes riveted washer)
16	4055196	4	CAPSCREW, #10-24NC x 7/8"
17	4055194	4	PLATE, locking
18	4053336	1	O-RING, thrust plate
19	4059747	1	HOUSING, turbine
	4056026	6	CAPSCREW, 3/8"NC x 3/4"
20	4055981	3	PLATE, capscrew locking
21	4059018	1	HOUSING ASSY., compressor (Includes venturi)
22	4055203	6	CLAMP, compressor housing
	903626	12	CAPSCREW, 5/16"NC x 3/4"
	917356	12	LOCKWASHER, plated, 5/16"
23	4055206	1	PLATE, name
	4049009	4	SCREW, drive

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



EXHAUST MANIFOLD T-19672

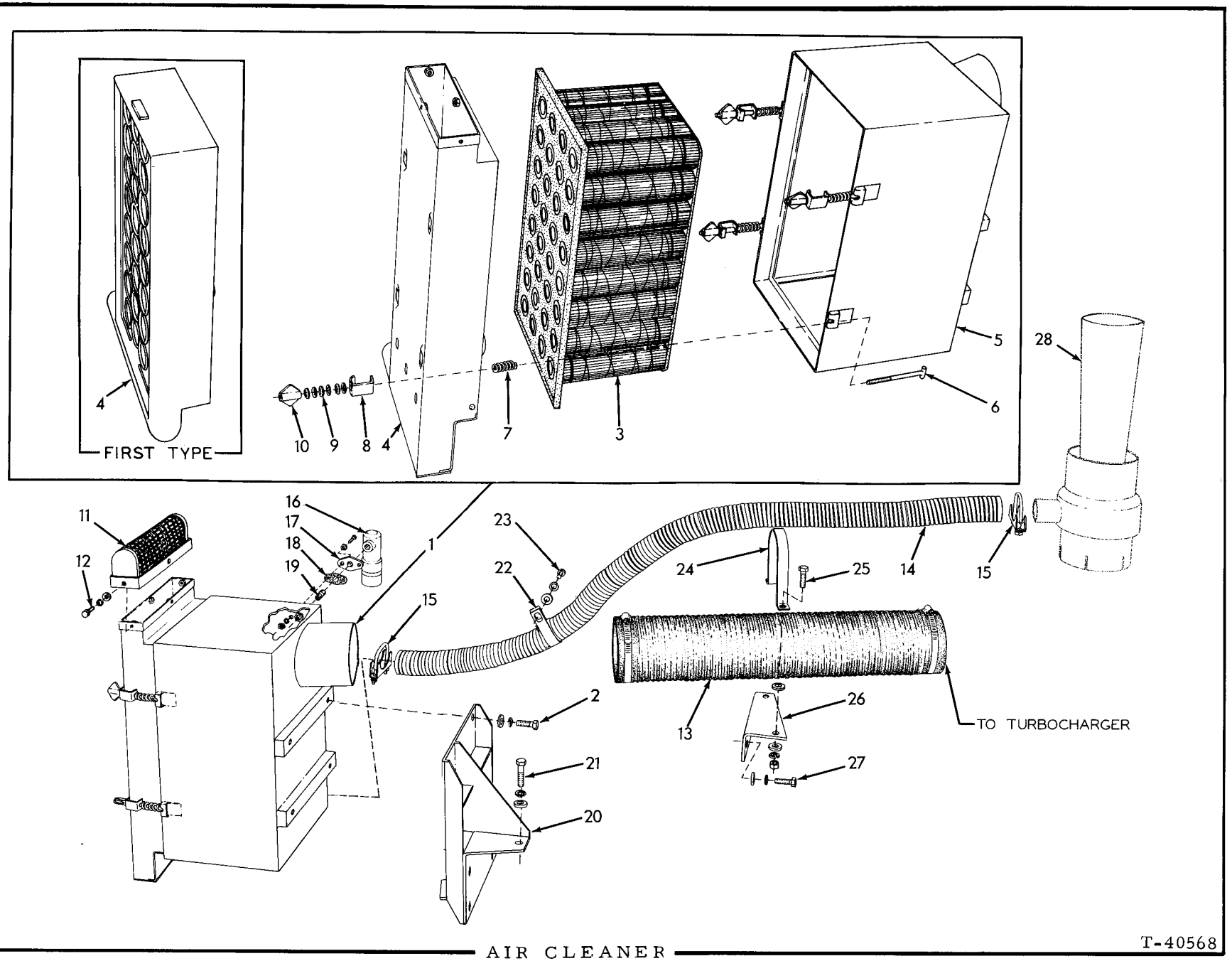
ITEM	PART NO.	QTY.	DESCRIPTION
1	4374694	1	MANIFOLD, rear section
2	4387014	1	MANIFOLD, exhaust, center section
	917425	2	PLUG, pipe, hex-hd., brass, 1/4"NPT
3	4376036	8	RING, sealing
4	------	2	SLEEVE, connecting (Order SLEEVE 4391425) — Used prior to engine #21-09094
	4391425	2	SLEEVE, connecting (Effective with engine #21-09094)
5	4374695	1	MANIFOLD, front section
6	915987	10	CAPSCREW, manifold attaching (1-1/2" long)
7	916317	2	CAPSCREW, manifold attaching (2-3/4" long)
8	4371107	12	WASHER, manifold capscrew
9	4387697	6	□GASKET, manifold



T-40512

EXHAUST PIPE

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	ADAPTOR, exhaust elbow hose } Engines prior to #21-07467.
2	------	1	HOSE, exhaust elbow (metal) } Order item 3
3	4391715	1	DIFFUSER, exhaust (Engines #21-07467 and up)
4	4390080	1	ELBOW, exhaust
	919230	4	CAPSCREW, 1/2"NC x 1-3/8"
	904208	4	LOCKWASHER, 1/2"
5	629755	2	CLAMP, exhaust pipe
	916389	2	CAPSCREW, 3/8"NF x 3-1/4"
	044973	4	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
6	629761	1	ASPIRATOR, air cleaner
7	096055	1	PIPE, exhaust

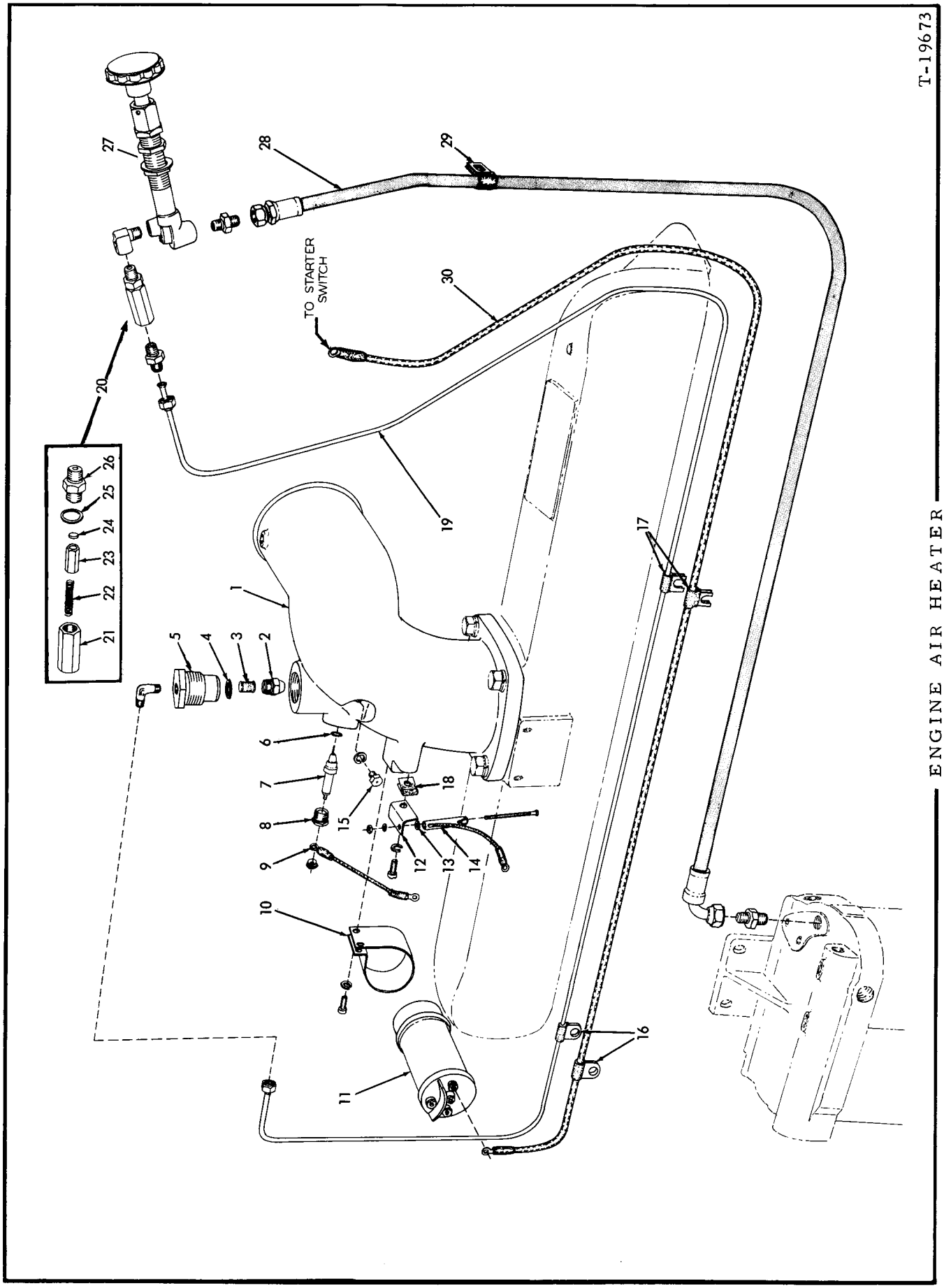


AIR CLEANER

T-40568

AIR CLEANER

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	CLEANER ASSY., air (Loaders prior to #14634. Order 651300 and items 11 and 12) } Each consists of items 3 tnru 10
	651300	1	CLEANER ASSY., air (Loaders #14634 and up)
2	614478	4	CAPSCREW, 1/2"NF x 1-3/8"
	064531	4	WASHER, plain
	904208	4	LOCKWASHER, 1/2"
3	632707	1	CARTRIDGE, air cleaner
4	------	1	PANEL, pre-cleaner (Used prior to loader #14634. Order 651303 and items 11 and 12)
	651303	1	PANEL, pre-cleaner (Effective with loader #14634)
5	634447	1	HOUSING ASSY., air cleaner (Includes items 6 thru 10)
6	196663	4	T-BOLT, pre-cleaner panel
7	650301	4	SPRING, pre-cleaner panel T-bolt
8	196662	4	HOOK, pre-cleaner panel
9	659195	24	WASHER, spring, pre-cleaner panel bolt
10	056863	4	NUT, wing, pre-cleaner panel bolt
11	651310	1	ADAPTER, air intake (Effective with loader #14634)
12	047478	4	CAPSCREW, 1/4"NC x 5/8"
	904204	4	LOCKWASHER, 1/4"
	911114	4	WASHER, plain, SAE std., 1/4"
13	647309	1	HOSE, air inlet
	658779	2	CLAMP, hose
14	630357	1	HOSE, aspirator
15	185502	2	CLAMP ASSY., aspirator hose
16	631564	1	INDICATOR, air restriction (Early units) } Serviced only as a unit
	4388648	1	INDICATOR, air restriction (Late units)
17	3045531	1	FLANGE, mounting, air restriction indicator (Late units)
	924956	2	CAPSCREW, plated, 1/4"NF x 3/4"
	904204	2	LOCKWASHER, 1/4"
	911040	2	NUT, 1/4"NF
	914686	2	WASHER, plain (copper)
18	631563	1	GASKET, indicator to air cleaner
19	622447	1	FITTING, connector (Includes filter)
20	649575	1	BRACKET, cleaner mounting
21	035067	5	CAPSCREW, 1/2"NF x 2"
	904208	5	LOCKWASHER, 1/2"
	064531	5	WASHER, plain
22	618913	1	CLIP, hose supporting
23	035525	1	CAPSCREW, 1/2"NF x 1-1/8" (Early units)
	035220	1	CAPSCREW, 1/2"NC x 1-1/8" (Late units)
	904208	1	LOCKWASHER, 1/2"
	900818	1	WASHER, plain, U.S. std., 1/2"
24	630359	1	STRAP, air hose
25	035073	2	CAPSCREW, 1/2"NF x 1-3/4"
	064531	4	WASHER, plain (heavy)
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
26	093604	1	ANGLE, air hose strap
27	614478	2	CAPSCREW, 1/2"NF x 1-3/8"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
28	------	-	ASPIRATOR (See EXHAUST PIPE)


T-19673
ENGINE AIR HEATER
TO STARTER SWITCH
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ENGINE AIR HEATER

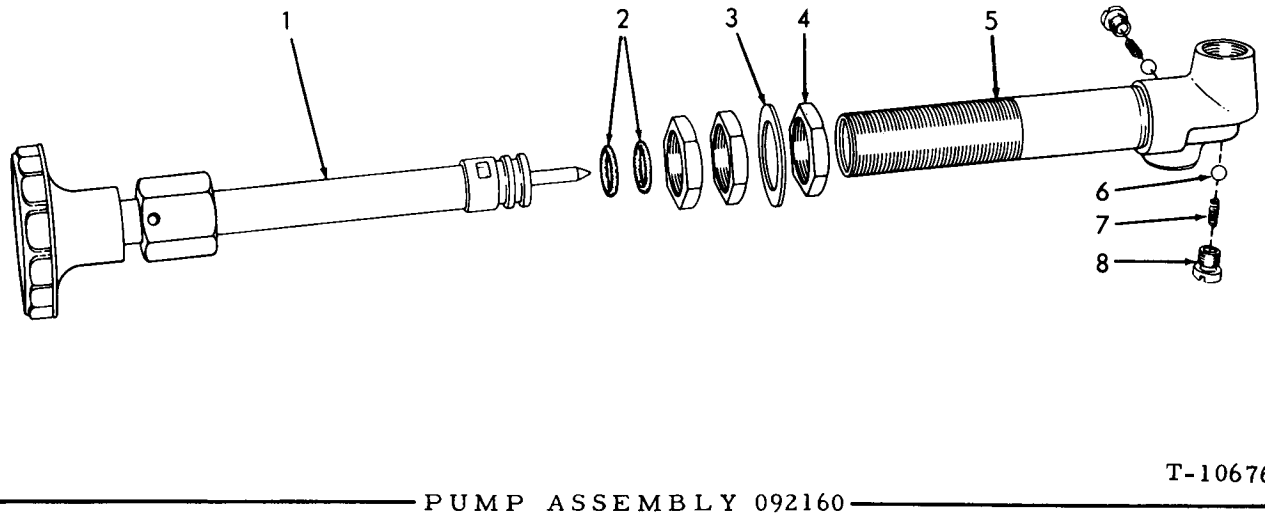
USAGE: Special equipment. Not for units equipped with Engine Primer. Production discontinued

ITEM	PART NO.	QTY.	DESCRIPTION
1	633163	1	ELBOW, air intake (Replaces standard ELBOW 4386611)
2	631224	1	NOZZLE ASSEMBLY, spray (Includes item 3)
3	631225	1	STRAINER ASSEMBLY, spray nozzle (1 body and 1 screen)
4	630787	1	WASHER, spray nozzle
5	088038	1	BUSHING, spray nozzle
6	631566	1	GASKET, insulator
7	631226	1	INSULATOR PACKAGE (Includes terminal nut and item 6)
8	630828	1	NUT, insulator retaining
9	095860	1	CABLE, coil to insulator
10	631199	1	BRACKET, ignition coil mounting
	912226	2	SCREW, machine, fil-hd., 1/4"NC x 5/8"
	904204	2	LOCKWASHER, 1/4"
11	097026	1	COIL, ignition (Serviced only as a unit)
12	644133	1	BRACKET, resistor mounting
	912226	1	SCREW, machine, fil-hd., 1/4" x 5/8"
	904204	1	LOCKWASHER, 1/4"
13	631198	1	WASHER, insulating
14	630830	1	RESISTOR
	915922	1	SCREW, machine, #8-32 x 2-1/4"
	915923	1	LOCKWASHER, external teeth, #8
	907154	1	NUT, #8-32
15	630827	1	SCREW ASSEMBLY, electrode (1 screw and 1 electrode)
	904204	1	LOCKWASHER, 1/4"
16	644883	2	CLIP, supporting, tube and cable (3/16" diam., 17/32" bolt-hole)
17	639313	3	CLIP, supporting, tube and cable (3/16" diam., 13/32" bolt-slot)
18	644758	1	CLIP, tube supporting (3/16" diam., 9/32" bolt-hole)
19	094665	1	TUBE ASSEMBLY, pump to nozzle (Includes nuts)
	919204	1	ELBOW, flare type, 3/16" tube, 1/8"NPT male
	919244	1	CONNECTOR, flare type, 3/16" tube, 1/8"NPT male
20	094642	1	VALVE ASSEMBLY, check (Consists of item 21 thru 26)
21	094890	1	BODY, check valve
22	048603	1	SPRING, check valve
23	048608	1	PLUNGER, check valve
24	048606	1	DISC, check valve
25	630713	1	WASHER, check valve

(Continued)

ENGINE AIR HEATER (Continued)

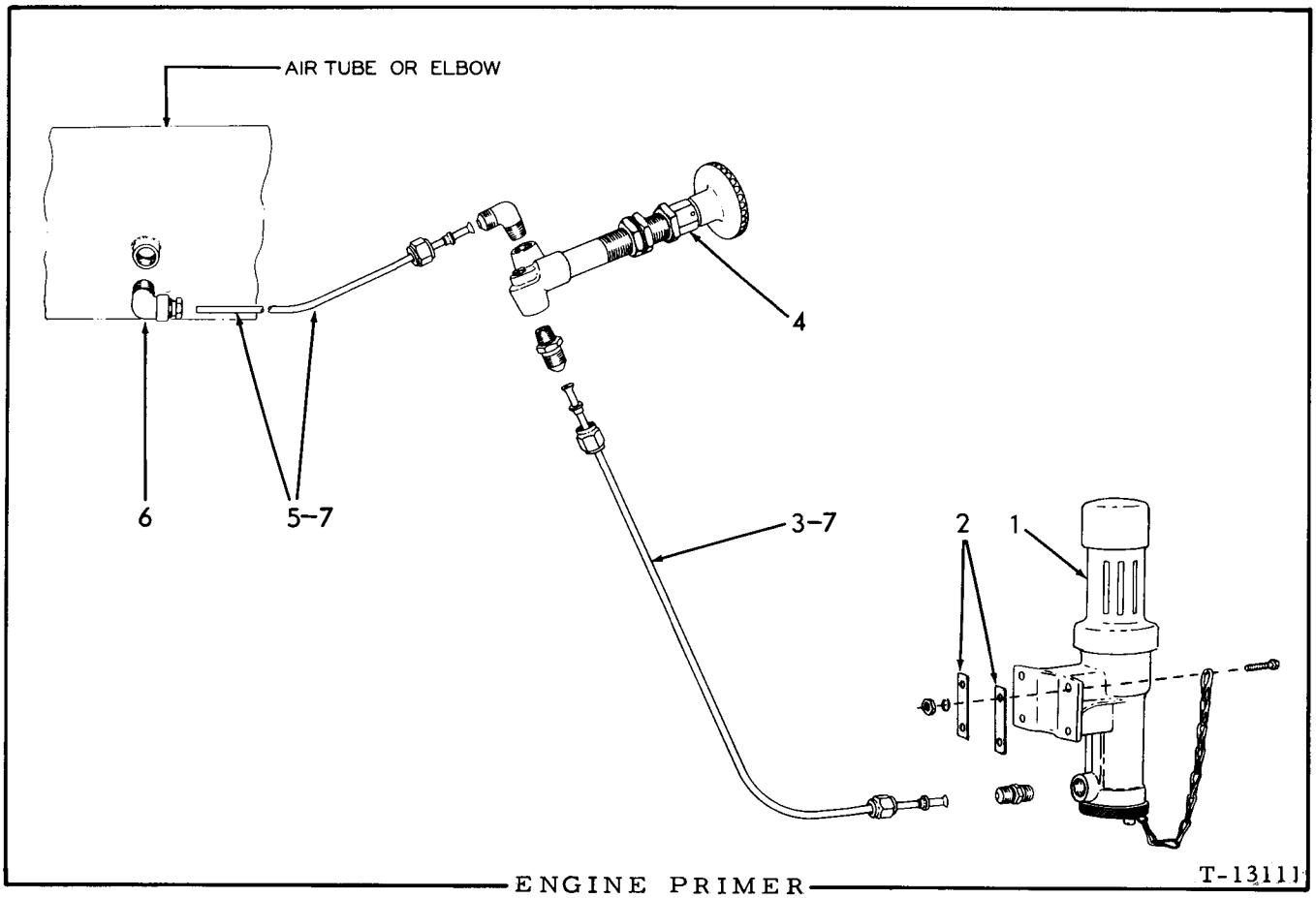
ITEM	PART NO.	QTY.	DESCRIPTION
26	092793	1	CONNECTOR, check valve
27	092160	1	PUMP ASSEMBLY (See page 87 for parts)
	915399	1	ELBOW, street, 90°, brass, 1/8"NPT
28	643723	1	HOSE, fuel filter to pump (See HOSE PARTS)
	919171	2	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
29	644006	1	CLIP, hose supporting
30	067177	1	CABLE, switch to coil



PUMP ASSEMBLY 092160

USAGE: See pages 85 and 88

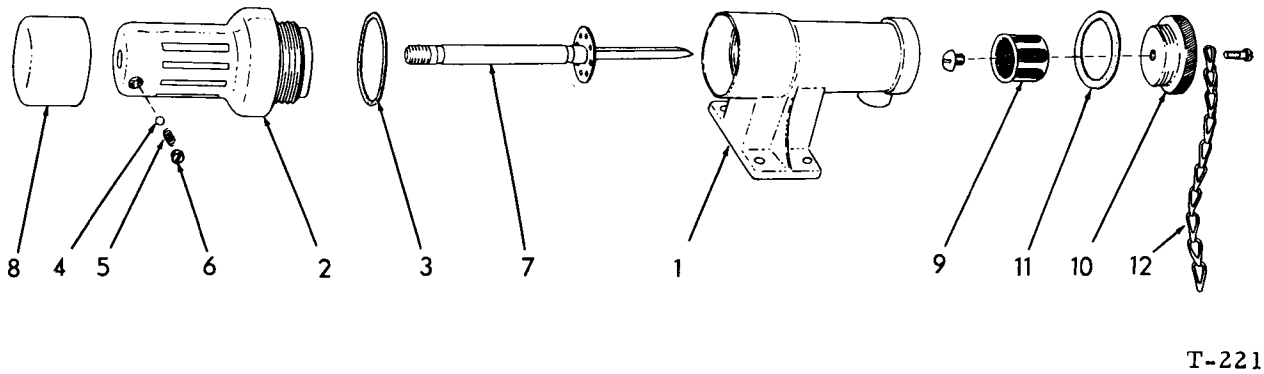
ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	PISTON ASSEMBLY (Not serviced separately)
2	923560	2	O-RING, plunger
3	066873	1	WASHER, mounting
4	066872	3	NUT, mounting
5	------	1	BARREL ASSEMBLY (Not serviced separately)
6	066876	2	BALL, check valve (5/32" diam.)
7	066875	2	SPRING, check valve
8	066874	2	RETAINER, check valve



ENGINE PRIMER

USAGE: Special equipment. For all units except those equipped with Air Heater

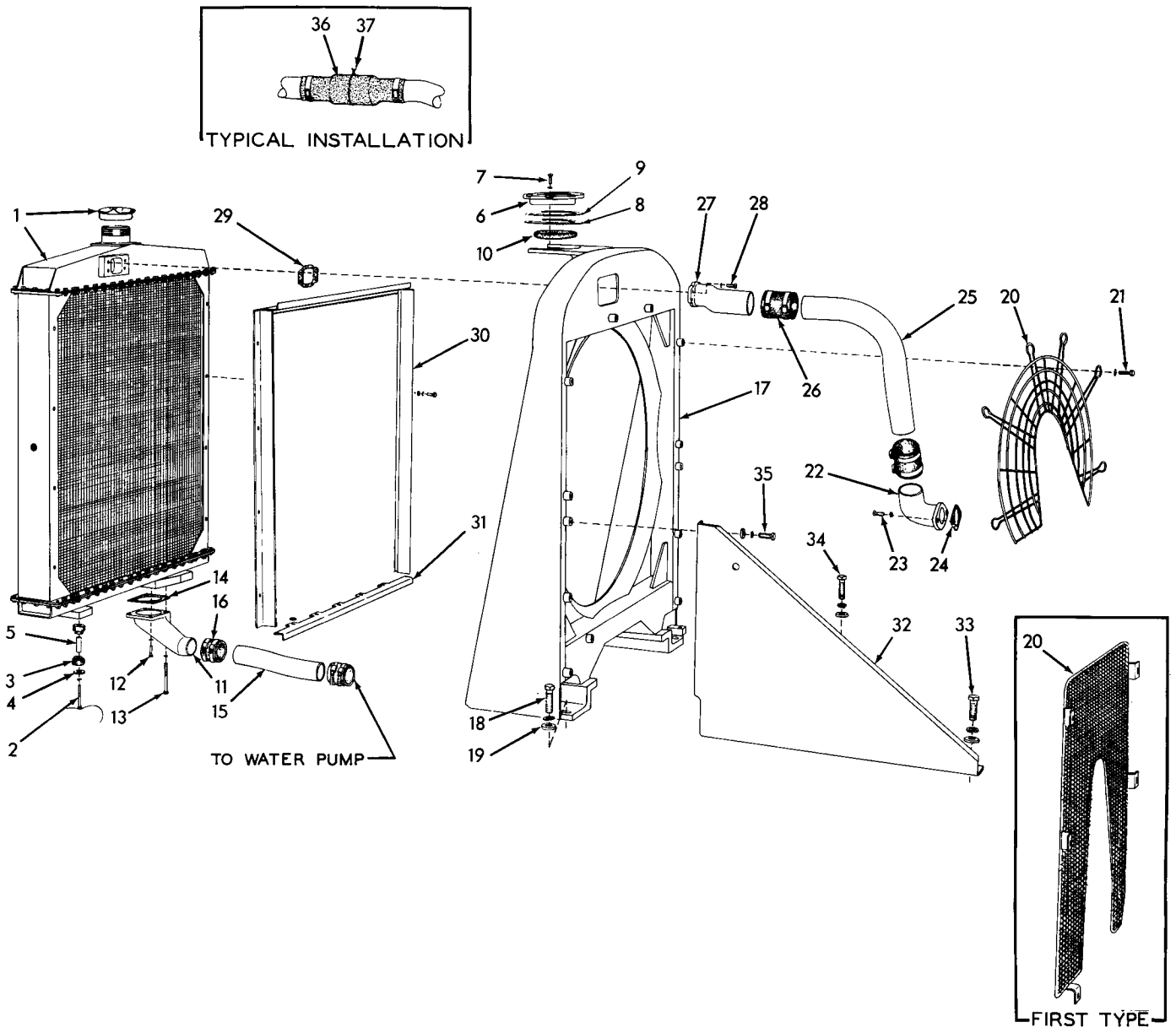
ITEM	PART NO.	QTY.	DESCRIPTION
1	075771	1	DISPENSER ASSEMBLY, priming fuel (See page 89 for parts)
	913706	4	CAPSCREW, #10-24NC x 1"
	904203	4	LOCKWASHER, #10
	901310	4	NUT, #10-24NC
2	066261	6	GASKET, dispenser mounting
3	------	1	TUBE, dispenser to pump (Order item 7)
	915488	2	NUT, Sealastic, 1/8" tube
	915486	2	RING, Sealastic, 1/8" tube (Includes ferrule)
	915556	2	CONNECTOR, Sealastic, 1/8" tube, 1/8"NPT male
4	092160	1	PUMP ASSEMBLY (See page 87 for parts)
5	------	1	TUBE, pump discharge (Order item 7)
	915488	1	NUT, Sealastic, 1/8" tube
	915486	1	RING, Sealastic, 1/8" tube (Includes ferrule)
	915557	1	ELBOW, Sealastic, 1/8" tube, 1/8"NPT male
6	066517	1	ELBOW ASSEMBLY, fuel spray (Includes nozzle, nut and sleeve. Serviced only as a unit)
7	066253	-	TUBING, copper, 1/8"O.D., 10 ft. roll (Use as req'd)



DISPENSER ASSEMBLY 075771

USAGE: See page 88

ITEM	PART NO.	QTY.	DESCRIPTION
1	068878	1	BODY, fuel dispenser
2	068879	1	CHAMBER, fuel dispenser
3	069164	1	GASKET, fuel dispenser chamber
4	905357	1	BALL, steel, 3/16" diam.
5	066251	1	SPRING, plunger locking ball
6	066252	1	PLUG, retaining, locking ball spring
7	066255	1	PLUNGER, fuel dispenser
8	068881	1	KNOB, fuel dispenser plunger
9	068875	1	STRAINER, fuel dispenser
	915432	1	SCREW, machine, 1/4"NC x 5/16"
10	075770	1	PLUG, fuel dispenser strainer
11	068876	1	GASKET, fuel dispenser strainer plug
12	075769	1	CHAIN, strainer plug retaining
	901781	1	SCREW, machine, fil-hd., #10-32NF x 1/2"



T-18092

RADIATOR AND MOUNTING

RADIATOR AND MOUNTING

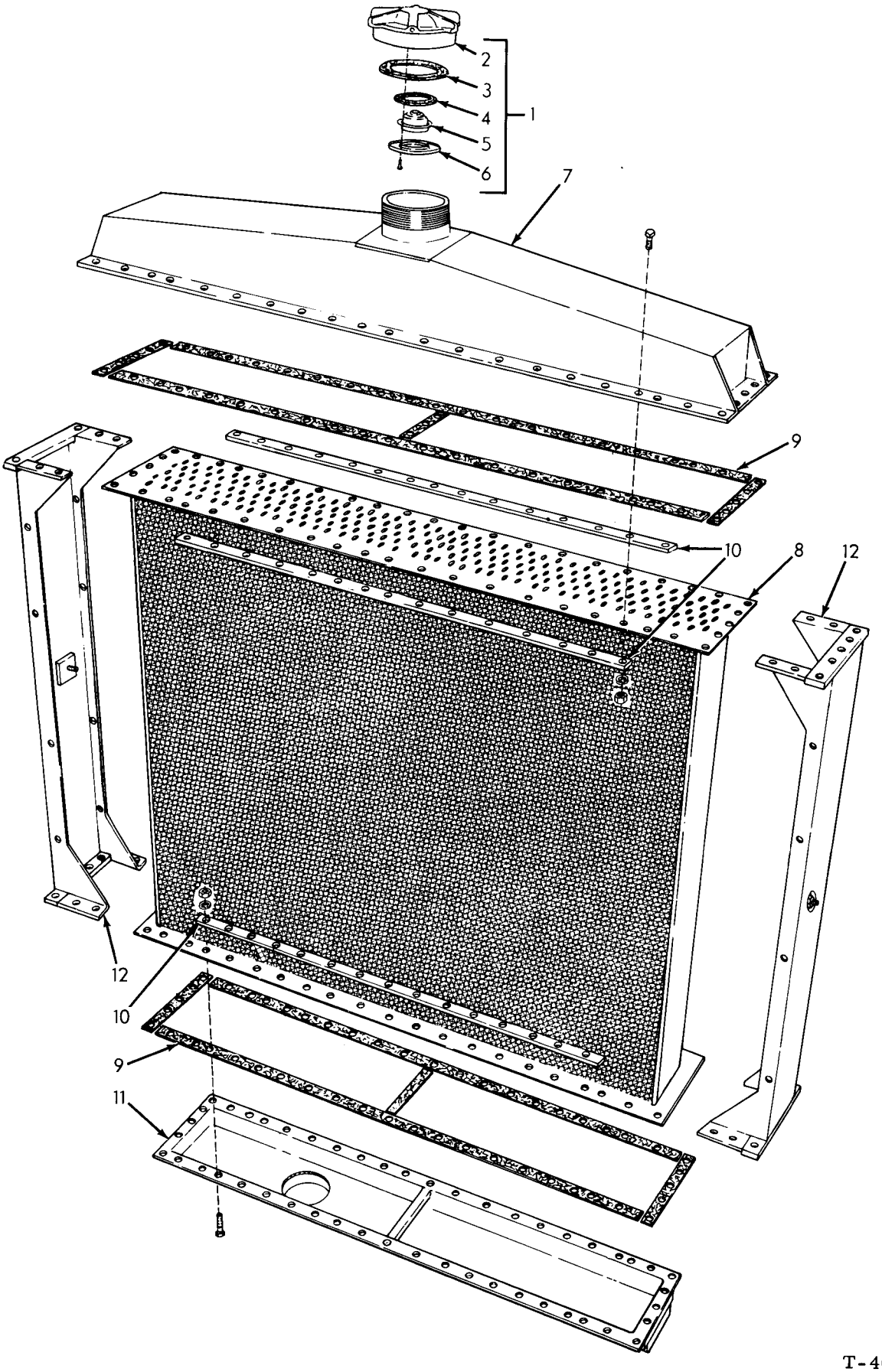
ITEM	PART NO.	QTY.	DESCRIPTION
1	632453	1	RADIATOR ASSEMBLY (Model 21G) } See page 95 for parts
	085426	1	RADIATOR ASSEMBLY (Model 21GS) }
2	068781	6	CAPSCREW, mounting
	904206	6	LOCKWASHER, 3/8"
	023756	2	WIRE, locking, 1/16" x 26"
3	061671	12	SNUBBER, vibration, radiator mounting
4	061656	6	WASHER, vibration snubber
5	061655	6	TUBE, spacing, vibration snubber
6	099137	1	RING, radiator support
7	012992	6	CAPSCREW, 3/8"NF x 1-1/4"
	904206	6	LOCKWASHER, 3/8"
8	076685	2	SHIM, adjusting, support ring (1/32" thick. Use as required)
9	076684	1	SHIM, adjusting, support ring (1/16" thick. Use as required)
10	095575	1	RING, cushion
11	092328	1	ELBOW, radiator outlet
12	013058	3	CAPSCREW, 3/8"NC x 1-1/4"
13	040570	1	CAPSCREW, 3/8"NC x 4-1/4"
	904206	4	LOCKWASHER, 3/8"
14	081627	1	GASKET, outlet elbow
15	633932	1	TUBE, engine inlet
16	073539	2	HOSE, inlet tube
	921914	4	CLAMP, hose, 2-5/16" to 3-1/4" diam.
17	645107	1	SUPPORT, radiator
18	012742	4	CAPSCREW, 3/4"NF x 2-1/4"
	904369	4	LOCKWASHER, 3/4"
19	061689	4	WASHER, plain
20	645187	1	GUARD, fan (Model 21G loaders prior to #13907)
	647240	1	GUARD, fan (Model 21GS; also Model 21G loaders #13907 and up)
21	036034	6	CAPSCREW, 3/8"NF x 1" (Early units)
	035439	6	CAPSCREW, 3/8"NC x 1" (Late units)
	904206	6	LOCKWASHER, 3/8"
	044973	6	WASHER, plain
22	092543	1	ELBOW, engine outlet
23	043886	2	CAPSCREW, 7/16"NC x 1"
	904207	2	LOCKWASHER, 7/16"
24	4310257	1	GASKET, outlet elbow
25	096123	1	TUBE, radiator inlet
26	067884	2	HOSE, inlet tube
	921914	4	CLAMP, hose, 2-5/16" to 3-1/4" diam.

(Continued)

RADIATOR AND MOUNTING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
27	082608	1	INLET, radiator	
28	013058	4	CAPSCREW, 3/8"NC x 1-1/4"	
	904206	4	LOCKWASHER, 3/8"	
29	081614	1	GASKET, radiator inlet	
30	087161	2	BAFFLE, air, radiator side	
	911168	8	CAPSCREW, 5/16"NF x 7/8"	Also attach radiator screen on Model 21GS loaders
	904205	8	LOCKWASHER, 5/16"	
	092665	8	WASHER, plain	
31	087062	2	BAFFLE, air, radiator top and bottom, rear	
	092665	10	WASHER, plain	
32	087327	1	FENDER, radiator support bracing, left	
	087328	1	FENDER, radiator support bracing, right	
33	658551	2	CAPSCREW, Nylok,3/4"NF x 2"	
	904369	2	LOCKWASHER, 3/4"	
	061689	2	WASHER, plain	
34	631795	2	CAPSCREW, Nylok,5/8"NF x 1-3/4"	
	904209	2	LOCKWASHER, 5/8"	
	064810	2	WASHER, plain	
35	070469	6	CAPSCREW, 1/2"NF x 1-1/4" (Early units)	
	035061	6	CAPSCREW, 1/2"NC x 1-1/4" (Late units)	
	904208	6	LOCKWASHER, 1/2"	
	064531	6	WASHER, plain	
36	629839	4	SHEET, asbestos, hose insulating (9" x 20")	Model 21GS only
37	023756	4	WIRE, retaining, 1/16" x 26"	
	921914	8	CLAMP, hose, 2-5/16" to 3-1/4" diam.	
38	087139	1	SCREEN, radiator (Not illustrated)	

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

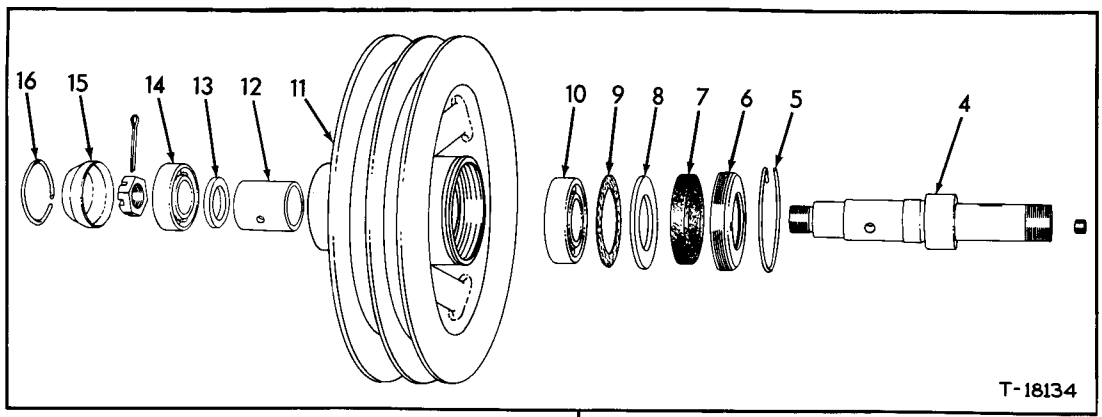


RADIATOR PARTS

RADIATOR PARTS

* Radiator Assembly 662453
** Radiator Assembly 085426
} See page 91

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	058730	1	1	CAP ASSEMBLY, water cooling radiator (Consists of items 2 thru 6)
2	------	1	1	CAP, radiator (Furnished only as part of item 1)
3	059242	1	1	GASKET, radiator cap
4	059244	1	1	GASKET, pressure valve
5	059245	1	1	VALVE, pressure
6	059243	1	1	RING, pressure valve retaining
	914782	3	3	SCREW, machine, rd-hd., brass, #5-40 x 3/8"
7	089720	1	1	TANK, top
	903773	48	48	CAPSCREW, 5/16"NC x 1-1/4"
	904205	48	48	LOCKWASHER, 5/16"
	911025	38	38	NUT, 5/16"NC
8	632554	1	-	CORE
	089725	-	1	CORE
9	091869	1	1	GASKET SET, core (Consists of 5 cork strips. Enough for both ends of core)
10	074679	4	4	CLAMP, core flange
11	089721	1	1	TANK, bottom
	903773	48	48	CAPSCREW, 5/16"NC x 1-1/4"
	904205	48	48	LOCKWASHER, 5/16"
	911025	38	38	NUT, 5/16"NC
12	089724	2	2	SIDE
	915888	2	2	SETSCREW, slotted-hd., cup-pt., 3/8"NC x 1-3/4"
	903584	2	2	NUT, jam, 3/8"NC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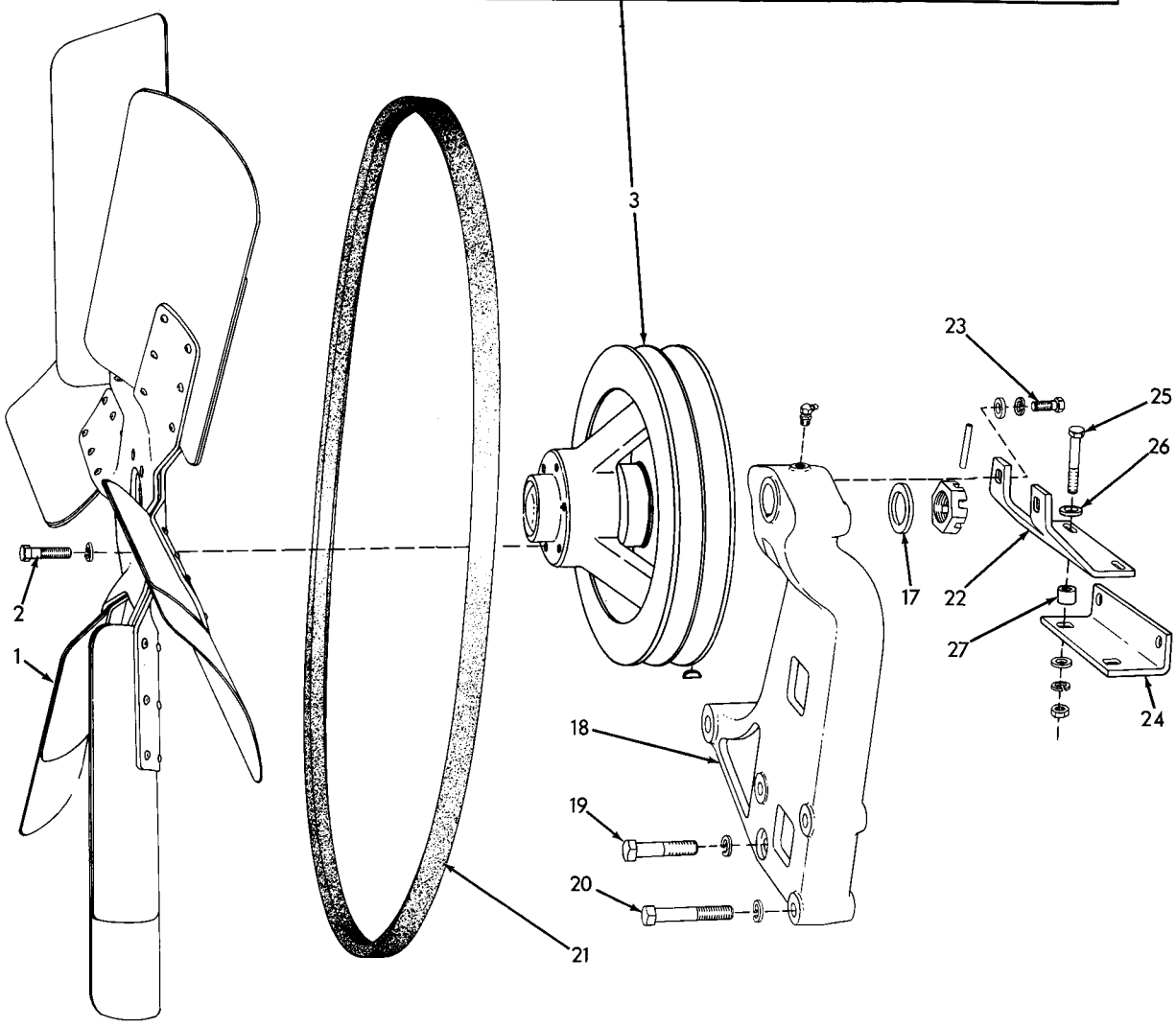
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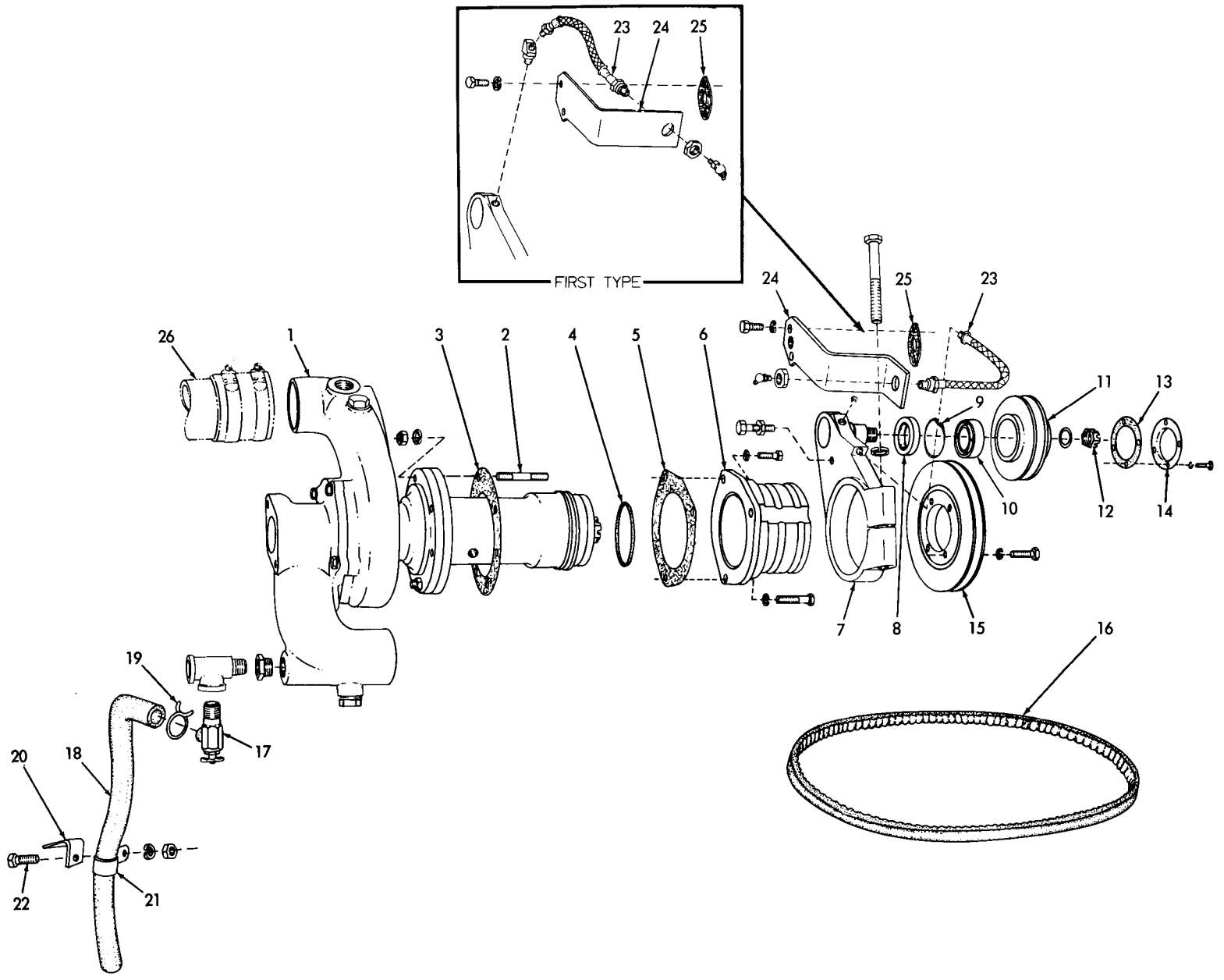
T-40593

FAN

ITEM	PART NO.	QTY.	DESCRIPTION
1	083524	1	FAN (Standard equipment)
	649904	1	FAN ASSEMBLY, reversible (Special equipment)
2	013058	6	CAPSCREW, 3/8"NC x 1-1/4"
	916271	6	CAPSCREW, 3/8"NC x 1" (For reversible fan only)
	904206	6	LOCKWASHER, 3/8"
3	662059	1	PULLEY ASSEMBLY (Consists of items 4 thru 16)
	913798	1	NUT, jam, slotted, 1-1/4"NF
	915692	1	PIN, roll, 1/4" x 1-7/8"
	905122	1	KEY, #7 woodruff, 1/8" x 1-3/4"
4	082829	1	SPINDLE
	910230	1	PLUG, pipe, slotted-hd., 1/8"NPT
	915943	1	NUT, jam, slotted, 3/4"NF
	900808	1	PIN, cotter, 1/8" x 1-1/2"
5	052104	1	RING, snap, fan pulley
6	4640973	1	RETAINER, spindle sealing washer
7	052106	1	WASHER, spindle sealing (cork)
8	4640975	1	WASHER, retaining, rear bearing
9	4640976	1	GASKET, bearing retaining washer
10	4253863	1	BEARING, ball, rear
11	092354	1	PULLEY
12	051715	1	SLEEVE, spacing, spindle bearings
13	4640978	1	WASHER, spacing, front bearing
14	4253862	1	BEARING, ball, front
15	088561	1	CAP, pulley
16	4042081	1	RING, snap, cap retaining
17	067962	1	WASHER, plain
18	633869	1	BRACKET, fan mounting
	915274	1	FITTING, lubricating, 45°, 1/8"NPT
19	035712	1	CAPSCREW, 1/2"NC x 2-1/4"
20	041917	3	CAPSCREW, 1/2"NC x 3-1/4"
	904208	4	LOCKWASHER, 1/2"
21	087347	2	BELT, fan (Furnished in matched pairs)
22	641090	1	BRACKET, fan bracing, front
23	035190	2	CAPSCREW, 1/2"NC x 1-1/2"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
24	4387920	1	BRACKET, fan bracing, rear
25	042430	2	CAPSCREW, 1/2"NF x 3-1/4"
26	064531	4	WASHER, plain
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
27	064961	2	BLOCK, spacing, fan bracing brackets



WATER PUMP (First type)

WATER PUMP

USAGE: Engines prior to serial No. 21-09761

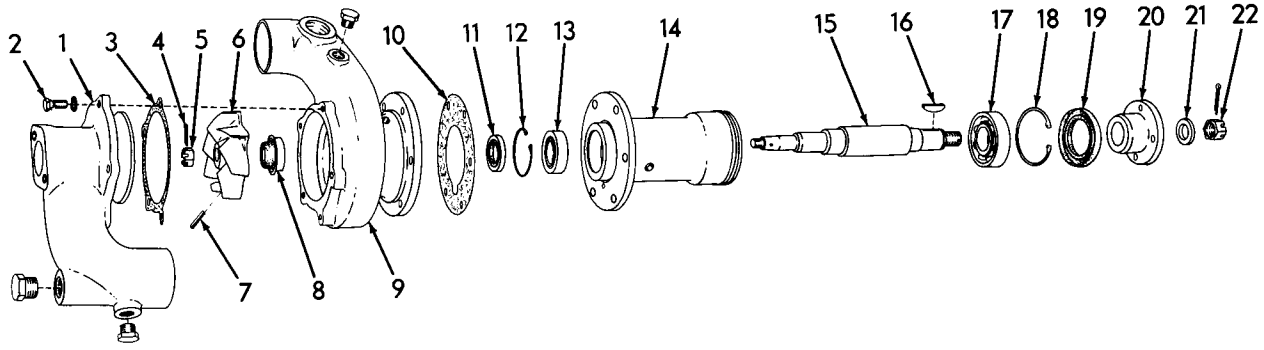
* Model 21G prior to engine serial No. 21-06538 (11/16" belt)
** Model 21GS; also Model 21G engine serial No. 21-06538 and and up (1/2" belt)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	4387607	1	1	PUMP ASSEMBLY (See page 101 for parts)
	921073	1	1	PLUG, pipe, hex-hd., 1"NPT (Used prior to engine #21-07460)
2	4513810	5	5	STUD, attaching
	904206	5	5	LOCKWASHER, 3/8"
	910123	5	5	NUT, 3/8"NF
3	4376398	1	1	□GASKET, pump mounting
4	923935	1	1	□O-RING, pump body
5	4361740	1	1	□GASKET, idler support
6	4386855	1	1	SUPPORT, belt tightening idler
	919224	1	1	CAPSCREW, 3/8"NC x 1-1/8"
	912069	2	2	CAPSCREW, 3/8"NC x 2-1/2"
	904206	3	3	LOCKWASHER, 3/8"
7	4388339	1	1	BRACKET, idler pulley
	919134	1	1	PLUG, pipe, hex-hd., 1/8"NPT
	916320	1	1	CAPSCREW, 1/2"NC x 4" (clamp)
	904208	1	1	LOCKWASHER, 1/2"
	916314	1	1	CAPSCREW, 1/2"NC x 2" (adjustment)
	910510	1	1	NUT, jam, 1/2"NC
8	4254670	1	1	SEAL, oil, idler pulley
9	4254100	1	1	RING, snap, idler pulley
10	4255031	1	1	BEARING, ball, idler pulley
11	4387294	1	-	PULLEY, idler
	4388253	-	1	PULLEY, idler
12	917626	1	1	NUT, self-locking, 3/4"NF
	910819	1	1	WASHER, plain
13	4347752	1	1	GASKET, idler pulley cover
14	4347751	1	1	COVER, idler pulley
	915343	4	4	CAPSCREW, 1/4"NC x 5/8"
	904204	4	4	LOCKWASHER, 1/4"
15	4386824	1	-	PULLEY
	916225	4	-	CAPSCREW, 3/8"NF x 1"
	904206	4	-	LOCKWASHER, 3/8"
	4391593	-	1	PULLEY
	4751643	-	4	BOLT (self-locking, 3/8"NF x 1")(Early units)
	4752002	-	4	BOLT (self-locking, 3/8"NF x 1/2")(Late units)

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
16	645829	1	-	BELT, pump driving
	4391351	-	1	BELT, pump driving
17	089894	1	1	COCK, water drain
	913257	1	1	TEE, pipe, service, 3/8"NPT
	904271	1	1	BUSHING, pipe reducing, 1/2"NPT to 3/8"NPT
18	643744	1	1	HOSE, water drain
19	089107	1	1	CLAMP, hose, spring type, 15/16" diam.
20	096208	1	1	ANGLE, supporting, water drain hose
21	069657	1	1	CLIP, drain hose
22	035167	1	1	CAPSCREW, 3/8"NF x 7/8"
	904206	1	1	LOCKWASHER, 3/8"
	911041	1	1	NUT, 3/8"NF
23	605782	1	1	HOSE, lubricating
	922194	1	-	ELBOW, adapting, 60°, 1/8"NPT male and female
	915275	1	1	FITTING, lubricating, 65°, 1/8"NPT
	903574	1	1	NUT, jam, 5/8"NC
24	4387993	1	-	BRACKET, lubricating hose
	4390887	-	1	BRACKET, lubricating hose (Has tapped hole for oil filter return line)
	915408	2	2	CAPSCREW, 3/8"NC x 3/4"
	904206	2	2	LOCKWASHER, 3/8"
25	4371027	1	1	□GASKET, lubricating hose bracket
26	------	1	1	HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER)

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

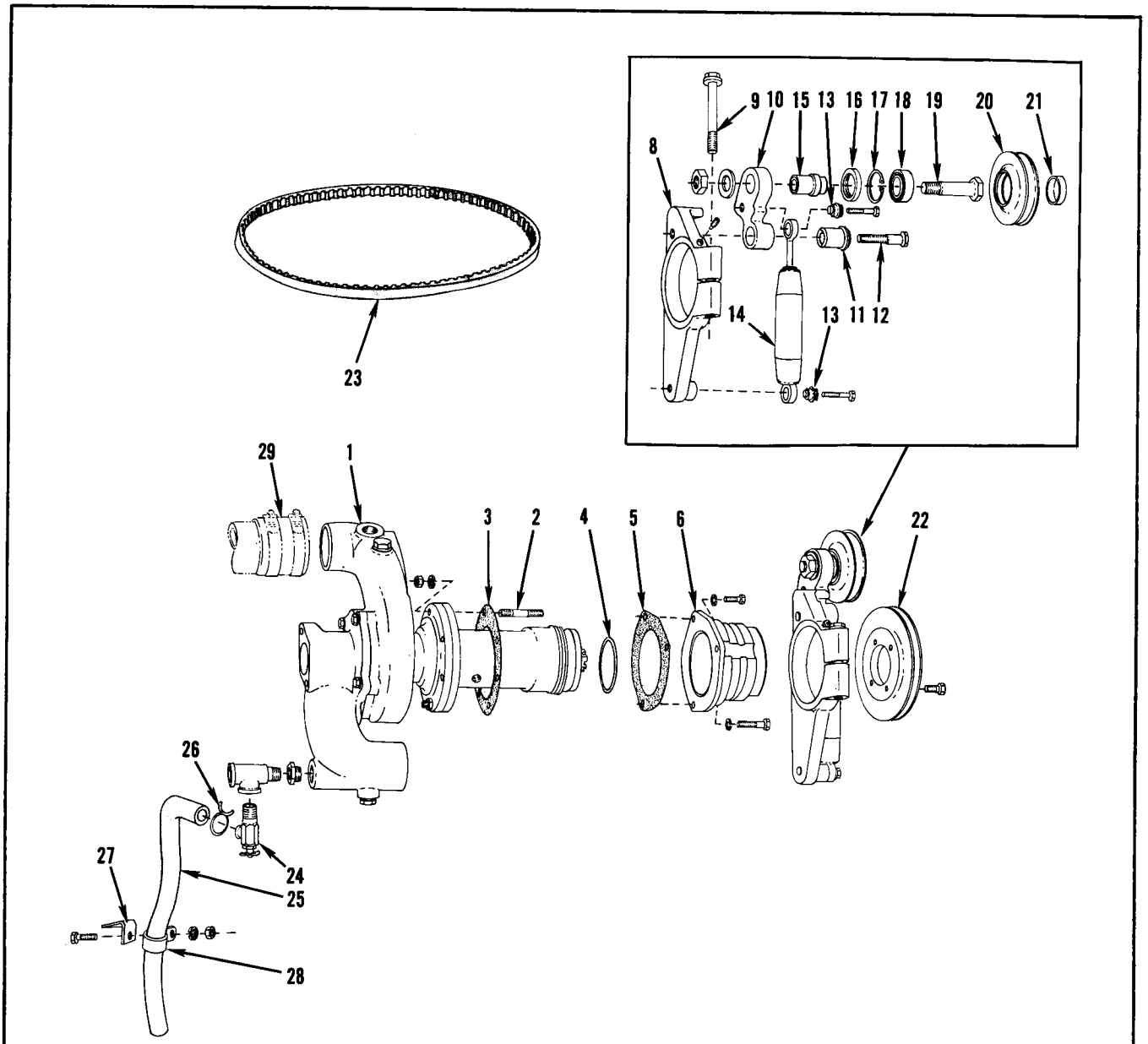


T-37185

WATER PUMP ASSEMBLY 4387607

USAGE: See pages 99 and 102

ITEM	PART NO.	QTY.	DESCRIPTION
1	4375682	1	COVER, pump inlet
	920333	1	PLUG, pipe, hex-hd., 3/8"NPT
	920416	1	PLUG, pipe, hex-hd., 1/2"NPT
2	923325	4	CAPSCREW, 5/16" NC x 7/8" } plated
	917356	4	LOCKWASHER, 5/16" } plated
3	4372421	1	GASKET, pump inlet cover
4	4041097	1	PIN, cotter, impeller retaining nut
5	4375686	1	NUT, impeller retaining
6	4389359	1	IMPELLER ASSEMBLY (Includes ceramic insert)
7	4375694	1	PIN, impeller retaining
8	4386862	1	SEAL ASSEMBLY (Serviced only as a unit)
9	4387609	1	BODY, pump
	920333	1	PLUG, pipe, hex-hd., 3/8"NPT
10	4387051	1	GASKET, pump body
11	4387605	1	SEAL, oil, rear end
12	4254100	1	RING, snap, rear bearing
13	4255338	1	BEARING, roller (rear)
14	4387050	1	SLEEVE, extension
15	4387606	1	SHAFT
16	4660677	1	KEY, pump shaft
17	4253871	1	BEARING, ball (front)
18	4253318	1	RING, snap, front bearing
19	4254948	1	SEAL, oil, front end
20	4386924	1	HUB, drive
21	4375691	1	WASHER, hub retaining
22	4052167	1	NUT, hub retaining
	900808	1	PIN, cotter, 1/8" x 1-1/2"



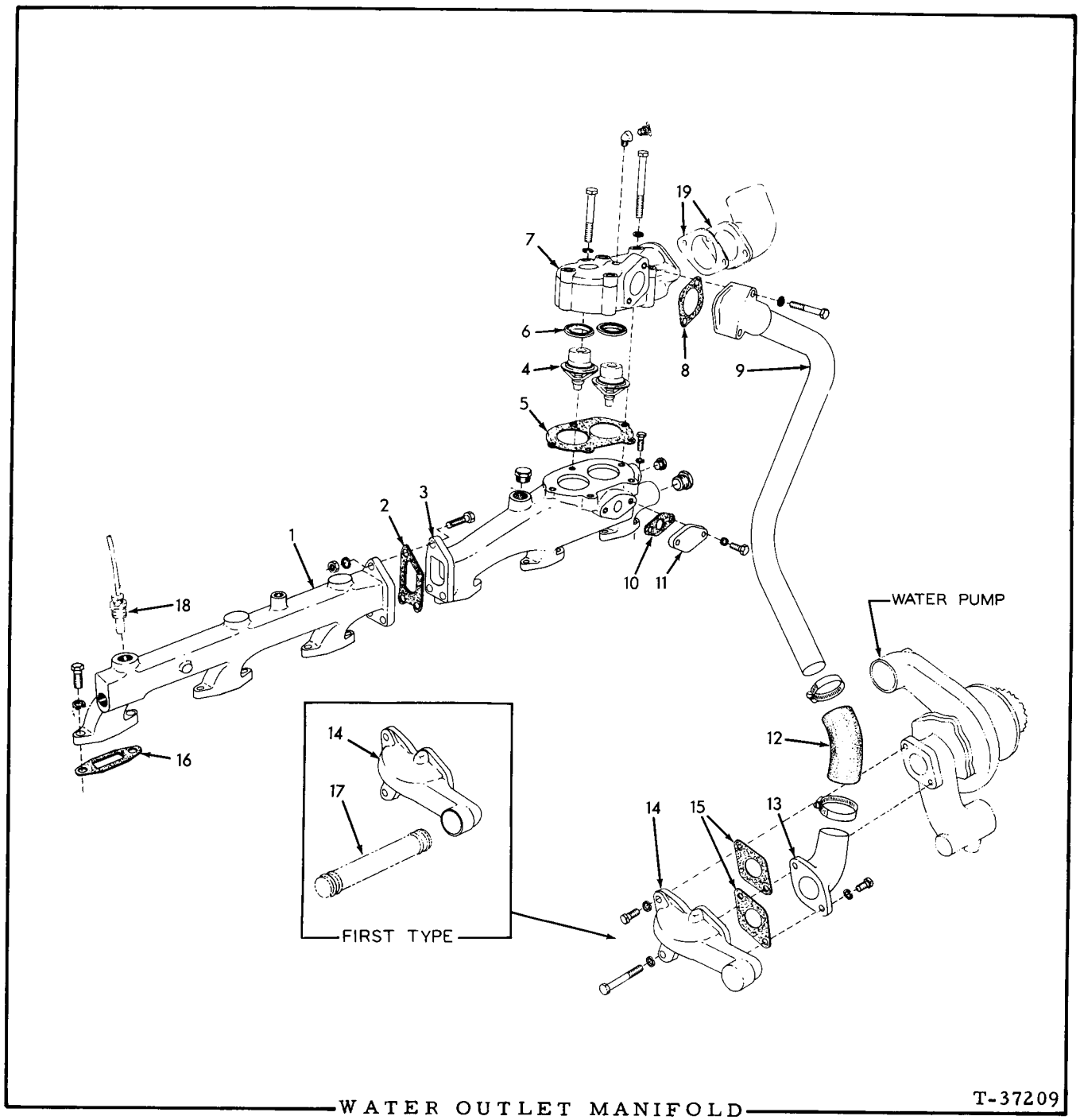
WATER PUMP T-75043

USAGE: Engines serial No. 21-09761 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	4387607	1	PUMP ASSEMBLY (See page 101 for parts)
2	4513810	5	STUD, attaching
	904206	5	LOCKWASHER, 3/8"
	910123	5	NUT, 3/8"NF
3	4376398	1	□GASKET, pump mounting
4	923935	1	□O-RING, pump body
5	4361740	1	□GASKET, idler support

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	4391003	1	SUPPORT, belt tightening idler
	919224	1	CAPSCREW, 3/8"NC x 1-1/8"
	912069	2	CAPSCREW, 3/8"NC x 2-1/2"
	904206	3	LOCKWASHER, 3/8"
8	4391950	1	BRACKET, idler mounting
	913683	1	SETSCREW, hex-socket, dog-pt., 3/8"NC x 1"
9	924863	1	SCREW, bracket clamping
10	4391949	1	ARM ASSEMBLY, idler (Includes item 11)
11	4391933	1	BUSHING, idler arm pivot (flex-type)
12	4391955	1	CAPSCREW, idler arm retaining
13	4391934	2	BUSHING, damper mounting (flex-type)
14	4391938	1	DAMPER ASSEMBLY (Includes item 13)
	919225	2	CAPSCREW, 3/8"NC x 1-3/8"
15	4390992	1	SHAFT, idler pulley
16	4255839	1	SEAL, oil idler pulley
17	4254100	1	RING, snap, idler pulley
18	4391154	1	BEARING, ball, idler pulley
19	4390655	1	BOLT, idler pulley
	910847	1	NUT, jam, 3/4"NF
	923421	1	WASHER, plain
20	4390995	1	PULLEY, idler
21	4255110	1	CAP, idler pulley
22	4391593	1	PULLEY
	4752002	4	BOLT, self-locking, 3/8"NF x 1/2"
23	4391351	1	BELT, pump driving
24	089894	1	COCK, water drain
	913257	1	TEE, pipe, service, 3/8"NPT
	904271	1	BUSHING, pipe, reducing, 1/2"NPT to 3/8"NPT
25	643744	1	HOSE, water drain
26	089107	1	CLAMP, hose, spring type, 15/16" diam.
27	096208	1	ANGLE, supporting, water drain hose
28	069657	1	CLIP, drain hose
	035167	1	CAPSCREW, 3/8"NF x 7/8"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
29	------	1	HOSE (See WATER INLET MANIFOLD AND HEAT EXCHANGER)



WATER OUTLET MANIFOLD T-37209

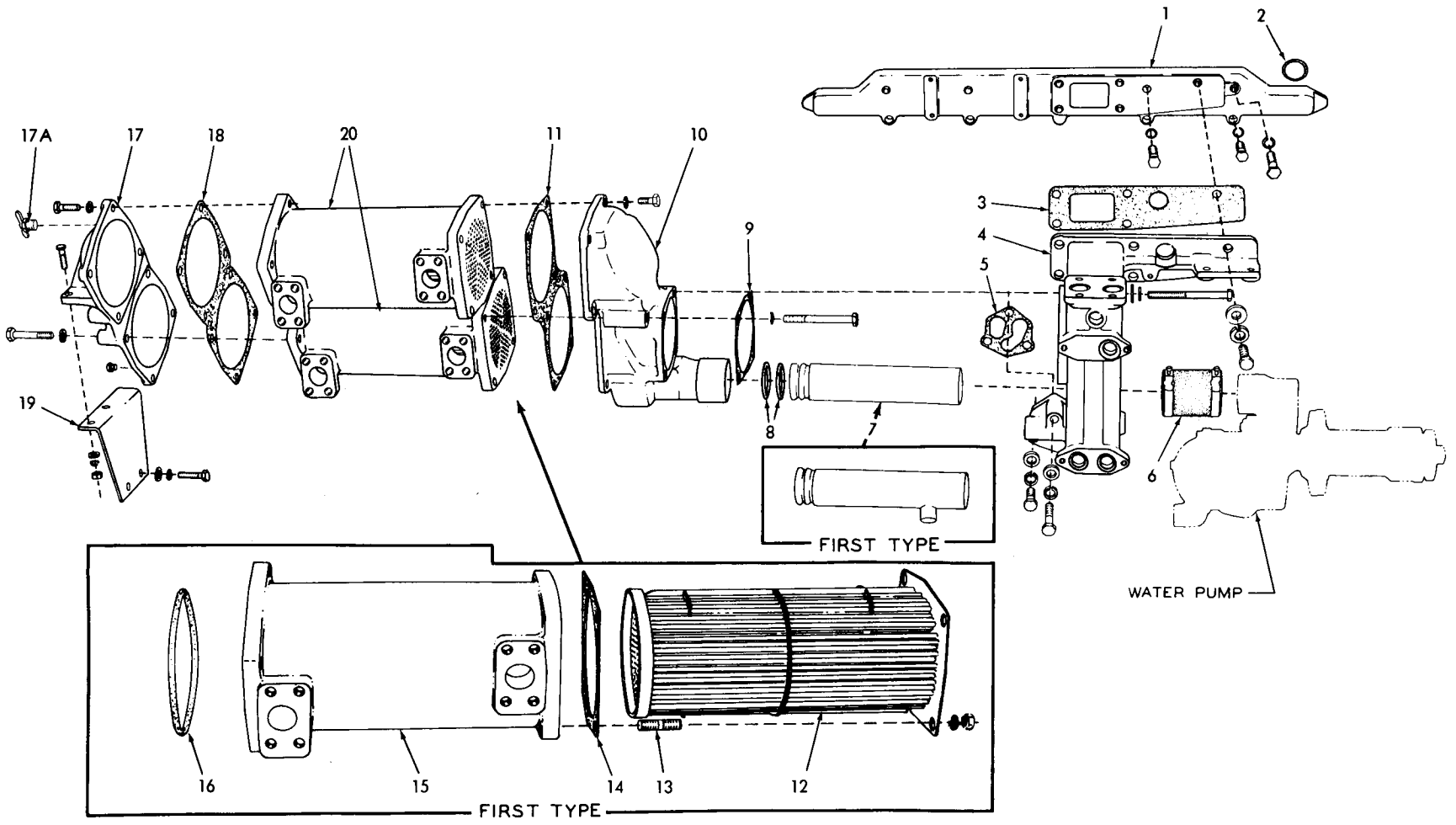
ITEM	PART NO.	QTY.	DESCRIPTION
1	4386827	1	MANIFOLD, rear
	920416	1	PLUG, pipe, hex-hd., 1/2"NPT (Early units)
	919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	919226	3	CAPSCREW, 3/8"NC x 1-5/8"
	904206	9	LOCKWASHER, 3/8"
	910324	3	NUT, 3/8"NC
2	4392279	1	□GASKET, manifold connecting

(Continued)

WATER OUTLET MANIFOLD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
3	4388563	1	MANIFOLD, front(If for engines#21-07439 and up also order items10 & 11)
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT
	920416	1	PLUG, pipe, hex-hd., 1/2"NPT
	920525	1	PLUG, pipe, hex-hd., 3/4"NPT
	919224	6	CAPSCREW, 3/8"NC x 1-1/8"
	904206	6	LOCKWASHER, 3/8"
4	4354537	2	THERMOSTAT
5	4376520	1	□GASKET, thermostat cover
6	4317554	2	SEAL, thermostat
7	4389036	1	COVER ASSEMBLY, thermostat (Includes item 6)
	914588	1	ELBOW, street, brass, 90°, 1/4"NPT
	912415	1	COCK, T-handle, 1/4"NPT (For venting air)
	918395	4	CAPSCREW, 7/16"NC x 3-1/4"
	918740	1	CAPSCREW, 7/16"NC x 4"
	904207	5	LOCKWASHER, 7/16"
8	4386137	1	□GASKET, water by-pass tube
9	4386891	1	TUBE, water by-pass
	916274	2	CAPSCREW, 3/8"NC x 2-1/4"
	904206	2	LOCKWASHER, 3/8"
10	4362458	1	□GASKET, manifold cover
11	4313015	1	COVER, front manifold
	915408	2	CAPSCREW, 3/8"NC x 3/4"
	904206	2	LOCKWASHER, 3/8"
12	4386894	1	ELBOW, water by-pass tube (rubber)
	922198	2	CLAMP, hose, 1-9/16" to 2-9/16" diam.
13	4386881	1	ELBOW, water by-pass line
	916271	2	CAPSCREW, 3/8"NC x 1"
	904206	2	LOCKWASHER, 3/8"
14	4386779	1	FLANGE, water pump (21000H engines)
	4391237	1	FLANGE, water pump (21000-Mark II engines)
	920525	1	PLUG, pipe, hex-hd., 3/4"NPT (Early units only)
	916272	1	CAPSCREW, 3/8"NC x 1-1/4"
	920275	1	CAPSCREW, 3/8"NC x 3"
	904206	2	LOCKWASHER, 3/8"
15	4378112	2	□GASKET, water pump flange
16	4376483	6	□GASKET, manifold to head
17	------	-	TUBE, water (See OIL COOLER)
18	------	-	GAUGE, temperature (See INSTRUMENTS)
19	------	-	ELBOW AND GASKET (See RADIATOR AND MOUNTING)

Used prior to engine #21-07439



WATER INLET MANIFOLD AND HEAT EXCHANGERS (First type)

T-41789

WATER INLET MANIFOLD AND HEAT EXCHANGERS

USAGE: 21000H engines only

* Engines prior to serial No. 21-06927
** Engines serial No. 21-06927 and up

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	4389289	1	1	MANIFOLD, water inlet
	919231	4	4	CAPSCREW, 1/2"NC x 1-7/8"
	916317	3	3	CAPSCREW, 1/2"NC x 2-3/4"
	915969	1	1	CAPSCREW, 1/2"NC x 3" (Also attaches water filter hose bracket)
	904208	8	8	LOCKWASHER, 1/2"
2	925612	12	12	□O-RING, water inlet manifold
3	4389291	1	1	□GASKET, water and oil manifold
4	------	1	-	MANIFOLD, water and oil (Engines prior to #21-06509. Order MANIFOLD 4388147 and BONNET 4389840)
	4388147	1	1	MANIFOLD, water and oil (Effective with engine #21-06509)
	916311	5	5	CAPSCREW, 1/2"NC x 1-1/4"
	915987	2	2	CAPSCREW, 1/2"NC x 1-1/2"
	914399	1	-	CAPSCREW, 1/2"NC x 3-3/4" (Used prior to engine #21-05752)
	916320	1	1	CAPSCREW, 1/2"NC x 4" (Effective with engine #21-05752)
	904208	8	8	LOCKWASHER, 1/2"
	912333	8	8	WASHER, plain
5	4386495	1	1	□GASKET, manifold to block
6	4662263	1	1	HOSE, heat exchanger to water pump
	922199	2	2	CLAMP, hose, 2-9/16" to 3-9/16" diam.
7	4387510	1	1	TUBE, pump to bonnet (Used prior to engine #21-07460)
	4388185	-	1	TUBE, pump to bonnet (Effective with engine #21-07460)
8	923651	2	2	□O-RING, bonnet tube
9	4371160	1	1	□GASKET, heat exchanger adaptor
10	4387418	1	1	ADAPTOR, heat exchanger
	919294	2	2	CAPSCREW, 1/2"NC x 4-1/4" } To Exchanger
	915987	-	6	CAPSCREW, 1/2"NC x 1-1/2" } To Exchanger
	916322	4	4	CAPSCREW, 1/2"NC x 5" (To Manifold)
	904208	6	12	LOCKWASHER, 1/2"
	916009	4	4	WASHER, plain
11	4389678	1	1	□GASKET, heat exchanger adaptor
12	------	2	-	TUBE-BUNDLE, heat exchanger (Order item 20)
13	4367187	6	-	STUD, heat exchanger housing
	910195	6	-	NUT, 1/2"NF
	904208	6	-	LOCKWASHER, 1/2"
14	4386856	2	-	□GASKET, heat exchanger

(Continued)

WATER INLET MANIFOLD AND HEAT EXCHANGERS (Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
15	4387259	2	-	HOUSING, heat exchanger
16	923605	2	-	O-RING, heat exchanger
17	4388465	1	1	BONNET, heat exchanger(If for first replacement on engines prior to #21-07179 also order item 17A)
	919840	1	1	PLUG, pipe, hex-hd., 1/4"NPT
	915987	4	4	CAPSCREW, 1/2"NC x 1-1/2" } To Heat Exchanger
	915969	4	4	CAPSCREW, 1/2"NC x 3" } To Heat Exchanger
	904208	8	8	LOCKWASHER, 1/2" } To Heat Exchanger
	914847	2	2	CAPSCREW, 3/8"NC 1-1/2" } To Supporting Bracket
	911115	2	2	WASHER, plain, SAE std., 3/8" } To Supporting Bracket
	904206	2	2	LOCKWASHER, 3/8" } To Supporting Bracket
	910324	2	2	NUT, 3/8"NC } To Supporting Bracket
17A	4255363	-	1	COCK, vent, heat exchanger bonnet (Effective with engine #21-07179)
18	4389676	1	1	□GASKET, heat exchanger bonnet
19	4387453	1	1	BRACKET, supporting, heat exchanger
	922290	2	2	CAPSCREW, 1/2"NC x 2"
	910244	2	2	WASHER, plain, SAE std., 1/2"
	904208	2	2	LOCKWASHER, 1/2"
20	4389045	-	2	EXCHANGER, heat

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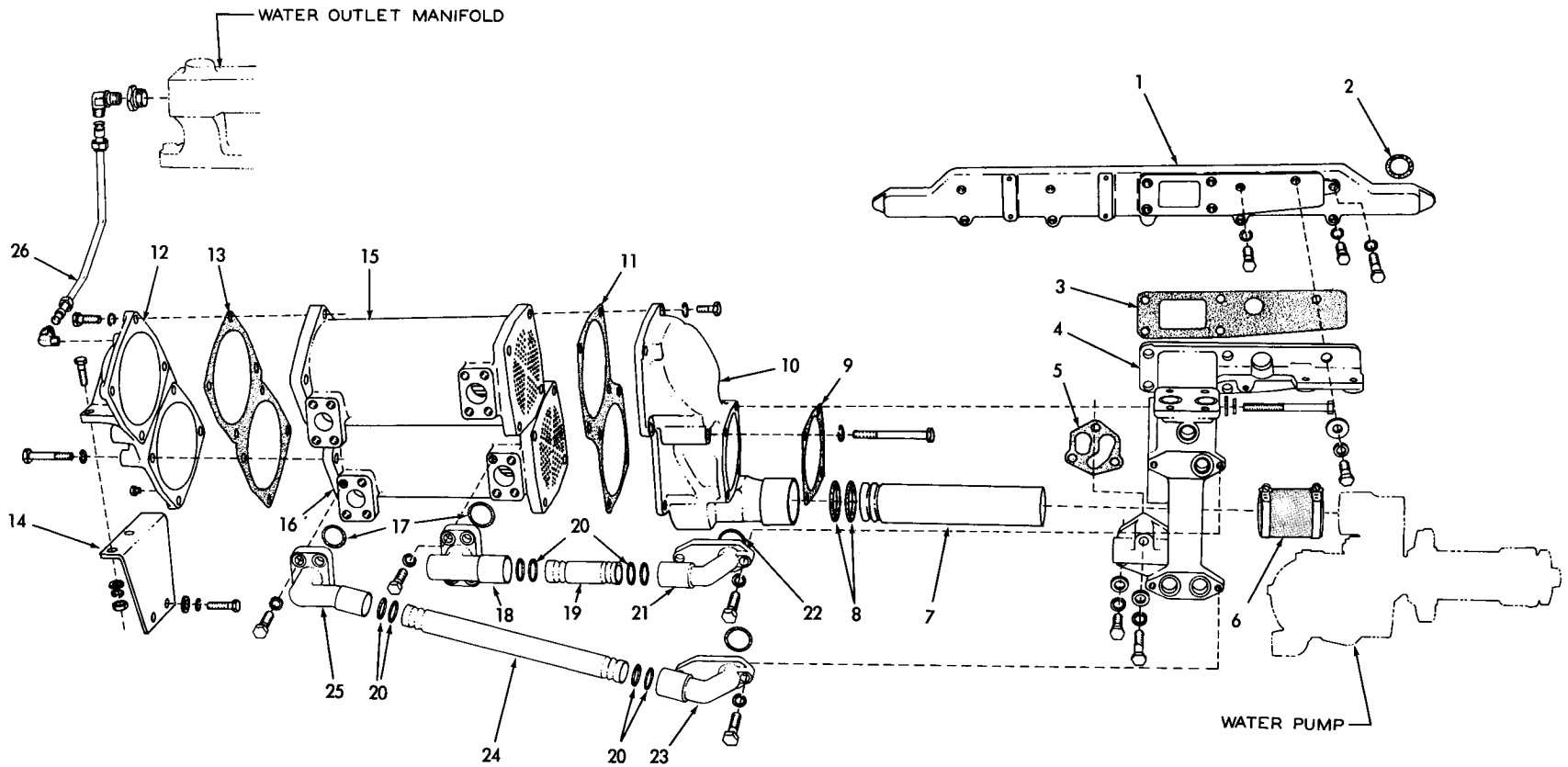

T-73033

WATER INLET MANIFOLD AND HEAT EXCHANGERS (Second type)

WATER INLET MANIFOLD AND HEAT EXCHANGERS

USAGE: 21000-Mark II engine

ITEM	PART NO.	QTY.	DESCRIPTION
1	4389289	1	MANIFOLD, water inlet
	919231	4	CAPSCREW, 1/2"NC x 1-7/8"
	916317	3	CAPSCREW, 1/2"NC x 2-3/4"
	916318	1	CAPSCREW, 1/2"NC x 3-1/4" (Also attaches water filter hose bracket)
	904208	8	LOCKWASHER, 1/2"
2	925612	12	□O-RING, water inlet manifold
3	4389291	1	□GASKET, water and oil manifold
4	4391462	1	MANIFOLD, water and oil
	916311	5	CAPSCREW, 1/2"NC x 1-1/4"
	915987	2	CAPSCREW, 1/2"NC x 1-1/2"
	916320	1	CAPSCREW, 1/2"NC x 4"
	904208	8	LOCKWASHER, 1/2"
	912333	8	WASHER, plain
5	4386495	1	□GASKET, manifold to block
6	4662263	1	HOSE, heat exchanger to water pump
	922199	2	CLAMP, hose, 2-9/16" to 3-9/16" diam.
7	4388185	1	TUBE, pump to bonnet
8	923651	2	□O-RING, bonnet tube
9	4371160	1	□GASKET, heat exchanger adaptor
10	4387418	1	ADAPTOR, heat exchanger
	919294	2	CAPSCREW, 1/2"NC x 4-1/4" } To Exchanger
	915987	6	CAPSCREW, 1/2"NC x 1-1/2" } To Exchanger
	916322	4	CAPSCREW, 1/2"NC x 5" (To Manifold)
	904208	12	LOCKWASHER, 1/2"
	916009	4	WASHER, plain
11	4389678	1	□GASKET, heat exchanger adaptor
12	4388465	1	BONNET, heat exchanger
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT
	915987	4	CAPSCREW, 1/2"NC x 1-1/2" } To heat exchanger
	915969	4	CAPSCREW, 1/2"NC x 3" } To heat exchanger
	904208	8	LOCKWASHER, 1/2" } To heat exchanger
	916272	2	CAPSCREW, 3/8"NC x 1-1/4" } To supporting bracket
	911115	2	WASHER, plain, SAE std., 3/8" } To supporting bracket
	904206	2	LOCKWASHER, 3/8" } To supporting bracket
	910324	2	NUT, 3/8"NC } To supporting bracket
13	4389676	1	□GASKET, heat exchanger bonnet
14	4387453	1	BRACKET, supporting, heat exchanger
	922290	2	CAPSCREW, 1/2"NC x 2"
	910244	2	WASHER, plain, SAE std., 1/2"
	904208	2	LOCKWASHER, 1/2"
15	4390506	1	EXCHANGER, heat, transmission oil
16	4390588	1	EXCHANGER, heat, engine oil
17	4255781	2	□O-RING, heat exchanger elbows

(Continued)

WATER INLET MANIFOLD AND HEAT EXCHANGERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
18	4390591	1	ELBOW, heat exchanger discharge
	916191	4	CAPSCREW, 7/16"NC x 1-1/2"
	904207	4	LOCKWASHER, 7/16"
19	4390595	1	TUBE, heat exchanger discharge
20	4255631	8	□O-RING, heat exchanger tubes
21	4390592	1	ELBOW, oil manifold, upper
	919225	1	CAPSCREW, 3/8"NC x 1-3/8"
	912069	1	CAPSCREW, 3/8"NC x 2-1/2"
	904206	2	LOCKWASHER, 3/8"
22	4255631	2	□O-RING, oil manifold elbows
23	4390589	1	ELBOW, oil manifold, lower
	919225	1	CAPSCREW, 3/8"NC x 1-3/8"
	912069	1	CAPSCREW, 3/8"NC x 2-1/2"
	904206	2	LOCKWASHER, 3/8"
24	4390594	1	TUBE, heat exchanger intake
25	4390590	1	ELBOW, heat exchanger intake
	916191	4	CAPSCREW, 7/16"NC x 1-1/2"
	904207	4	LOCKWASHER, 7/16"
26	4390583	1	TUBE, air bleed
	917809	2	NUT, Imperial, 1/4" tube
	917806	2	SLEEVE, Imperial, 1/4" tube
	919481	2	ELBOW, Imperial, 1/4" tube, 1/4"NPT male
	901839	1	BUSHING, pipe reducing, 1/2"NPT to 1/4"NPT

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

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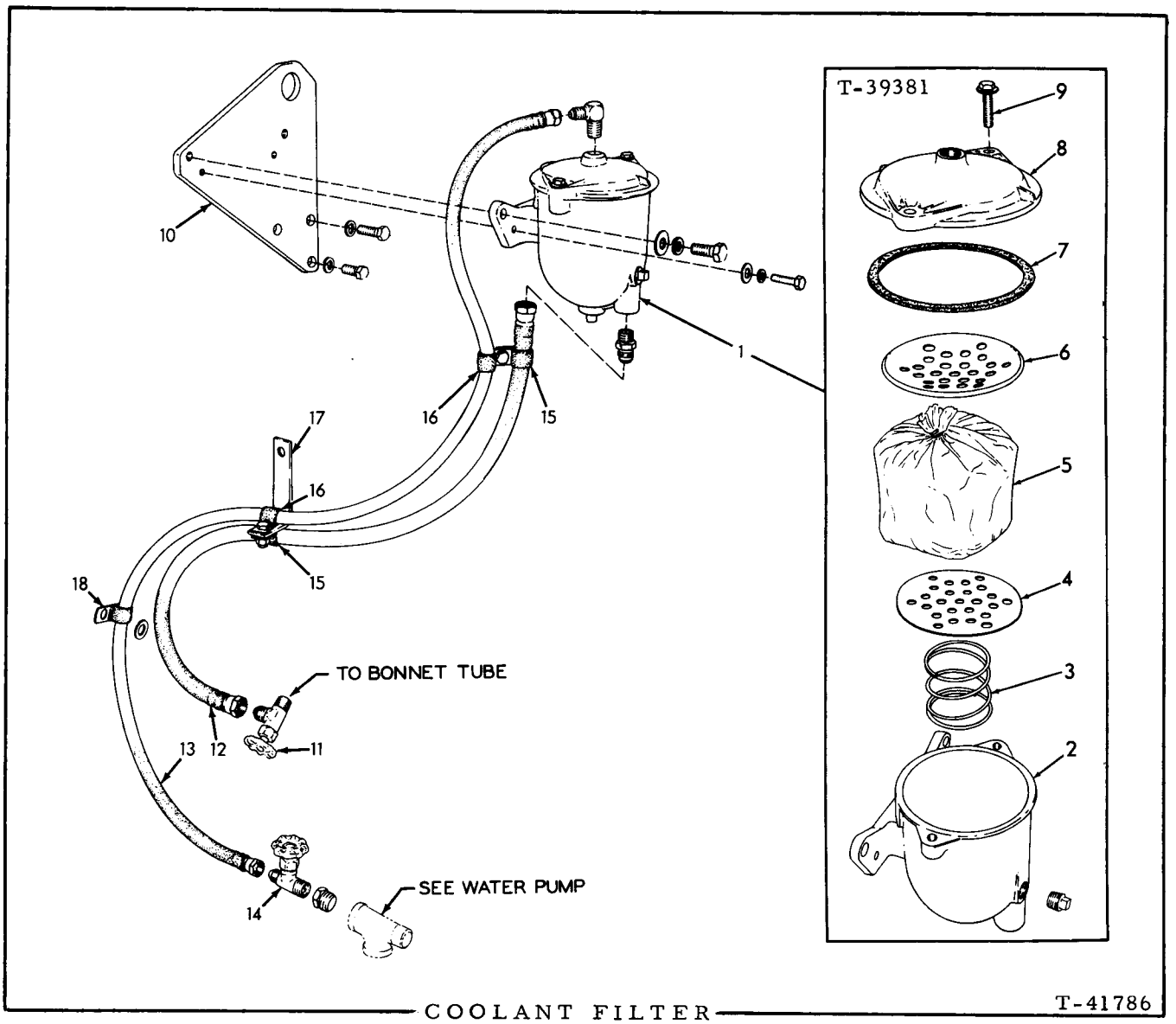


COOLANT FILTER

T-41786

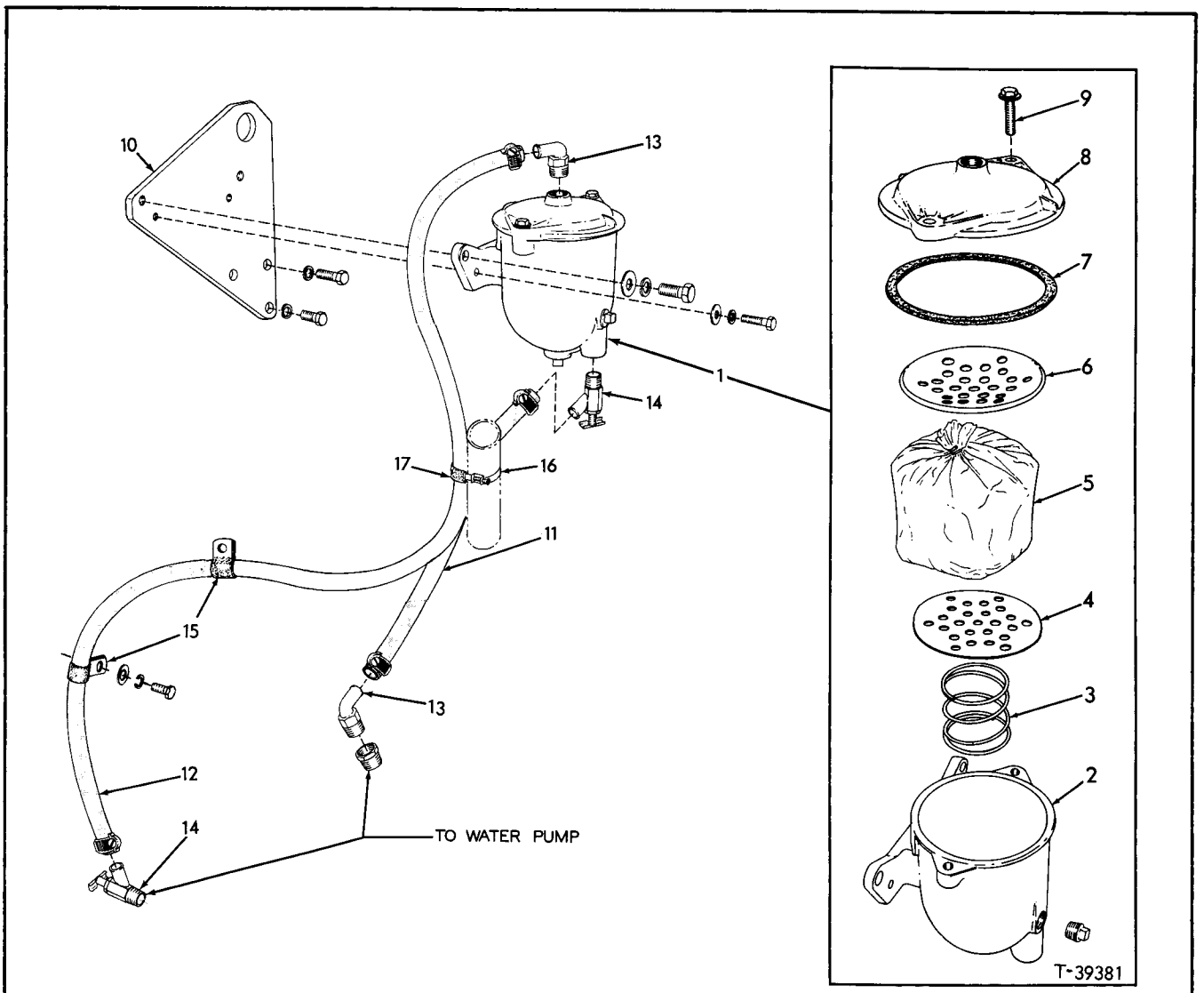
USAGE: Engines prior to serial No. 21-07460

ITEM	PART NO.	QTY.	DESCRIPTION
1	4387474	1	FILTER ASSY., water (Consists of items 2 thru 9. Has element for use with permanent anti-freeze)
	916311	2	CAPSCREW, 1/2"NC x 1-1/4"
	900818	2	WASHER, plain, U.S. std., 1/2"
	904208	2	LOCKWASHER, 1/2"
	916470	2	CAPSCREW, 5/16"NC x 1-1/8"
	901165	2	WASHER, plain, U.S. std., 5/16"
	904205	2	LOCKWASHER, 5/16"
2	4055031	1	BODY, filter
	920131	2	PLUG, pipe, 3/8"NPT
3	4054569	1	SPRING, filter element
4	4054568	1	PLATE, filter element, lower
5	4059380	1	ELEMENT KIT, filter (Includes items 4, 6 and 7)(Cannot be used with permanent anti-freeze)
	4059381	1	ELEMENT KIT, filter (Includes items 4, 6 and 7)(Can be used with permanent anti-freeze)

(Continued)

COOLANT FILTER (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	4055034	1	PLATE, filter element, upper
7	4054566	1	GASKET, filter cover
8	4055032	1	COVER, filter
9	4055033	2	BOLT ASSEMBLY, filter cover (Includes washer)
10	4387925	1	BRACKET, filter mounting
	916311	1	CAPSCREW, 1/2"NC x 1-1/4"
	919048	2	CAPSCREW, 1/2"NC x 1-5/8" (Also attaches fan bracing bracket)
	904208	3	LOCKWASHER, 1/2"
11	4255171	1	VALVE, water shut-off (1/2" tube, 3/8"NPT male)
12	4387969	1	HOSE ASSEMBLY, water line to filter
	919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
13	4387970	1	HOSE ASSEMBLY, filter to water pump
	919136	1	ELBOW, 37°, flare type, 90°, 3/8" tube, 3/8"NPT male
14	4255170	1	VALVE, water shut-off (3/8" tube, 3/8"NPT male)
	901835	1	BUSHING, pipe reducing, brass, 1/2"NPT to 3/8"NPT
15	4254580	2	CLAMP, water inlet hose
16	4255010	2	CLAMP, water outlet hose
	916271	1	CAPSCREW, 3/8"NC x 1"
	916269	1	CAPSCREW, 3/8"NC x 7/8"
	911115	4	WASHER, plain, SAE std., 3/8"
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8"NC
17	4387971	1	BRACKET, hose supporting
18	637741	1	CLIP, water outlet hose
	910244	1	WASHER, plain, SAE std., 1/2"



COOLANT FILTER

T-72473

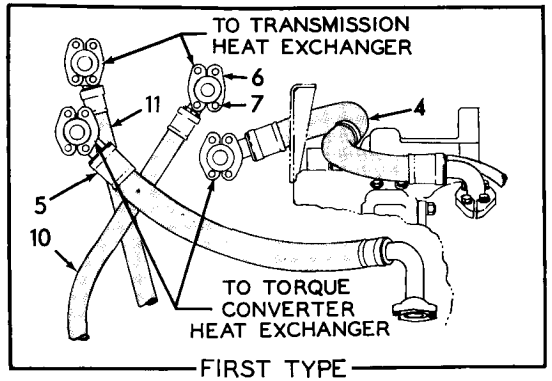
USAGE: Engines serial No. 21-07460 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	4387474	1	FILTER ASSY., water (Consists of items 2 thru 9. Has element for use with permanent anti-freeze)
	916311	2	CAPSCREW, 1/2"NC x 1-1/4"
	900818	2	WASHER, plain, U.S. std., 1/2"
	904208	2	LOCKWASHER, 1/2"
	914670	2	CAPSCREW, 5/16"NC x 1-1/8"
	901165	2	WASHER, plain, U.S. std., 5/16"
	904205	2	LOCKWASHER, 5/16"
2	4055031	1	BODY, filter
	920131	2	PLUG, pipe, 3/8"NPT
3	4054569	1	SPRING, filter element
4	4054568	1	PLATE, filter element,lower,

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
5	4059380	1	ELEMENT KIT, filter (Includes items 4, 6 and 7)(Cannot be used with permanent anti-freeze)
	4059381	1	ELEMENT KIT, filter (Includes items 4, 6 and 7)(Can be used with permanent anti-freeze)
6	4055034	1	PLATE, filter element, upper
7	4054566	1	GASKET, filter cover
8	4055032	1	COVER, filter
9	4055033	2	BOLT ASSEMBLY, filter cover (Includes washer)
10	4387925	1	BRACKET, filter mounting
	916311	1	CAPSCREW, 1/2"NC x 1-1/4"
	919048	2	CAPSCREW, 1/2"NC x 1-5/8"(Also attaches fan bracing bracket)
	904208	3	LOCKWASHER, 1/2"
11	------	1	HOSE, water pump to filter (14-1/2" long. Order item 18)
	921911	2	CLAMP, hose, 11/16" to 1-1/4" diam.
12	------	1	HOSE, filter to water pump (56" long. Order item 18)
	921911	2	CLAMP, hose, 11/16" to 1-1/4" diam.
13	4255286	2	ELBOW, water hose (90°, 5/8" nipple, 3/8"NPT)
	902071	1	BUSHING, pipe reducing, 1"NPT to 3/8"NPT
14	4255287	2	VALVE, water shut-off (5/8" nipple, 3/8"NPT)
15	4255770	2	CLAMP, water inlet hose
	916269	1	CAPSCREW, 3/8"NC x 7/8"
	904206	1	LOCKWASHER, 3/8"
	910244	1	WASHER, plain, SAE std., 1/2"
16	919789	1	CLAMP, hose binding
17	4388574	1	SLEEVE, hose binding clamp (plastic)
18	920722	-	HOSE, rubber, 5/8"I. D., 25 ft. roll (Use as required)

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



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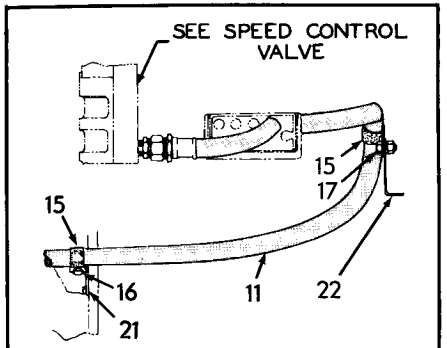

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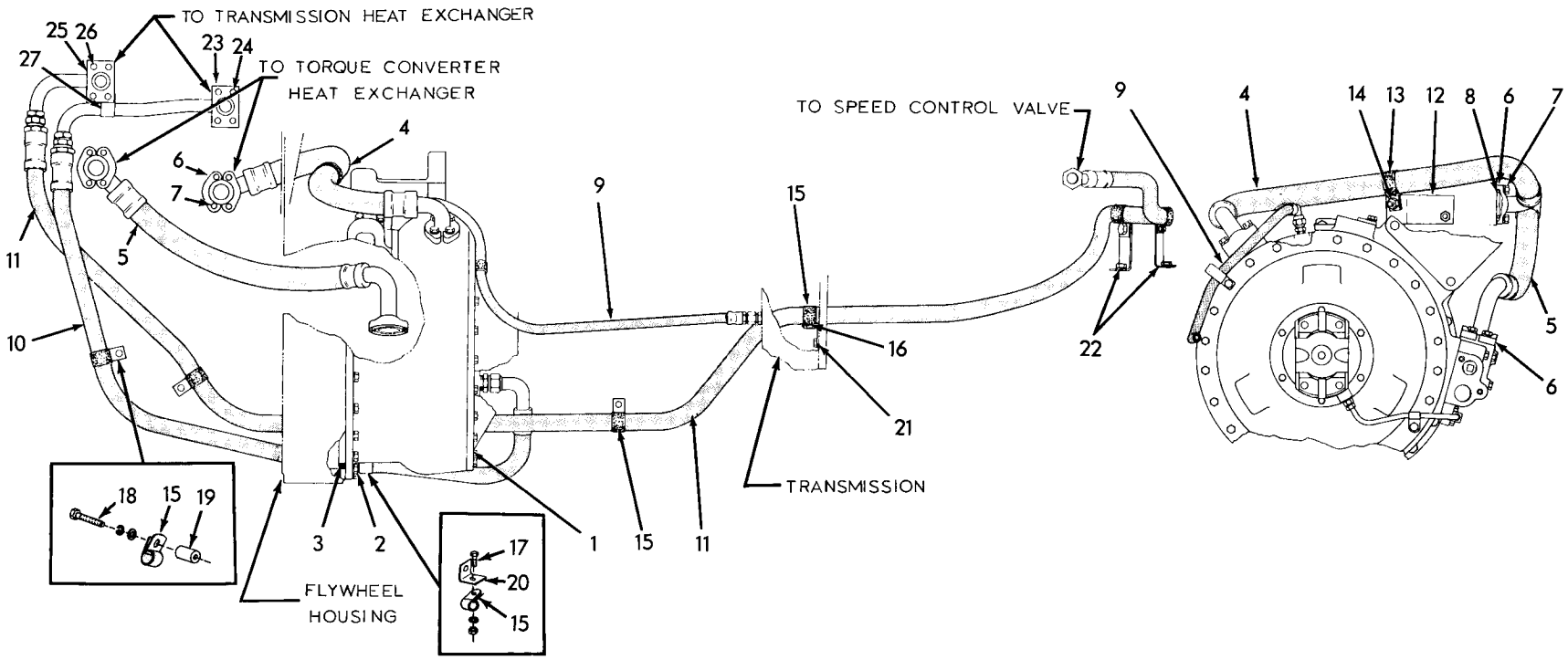


SIDE VIEW

REAR VIEW

T-71319

TORQUE CONVERTER (Units w/21000H Engines only)

TORQUE CONVERTER

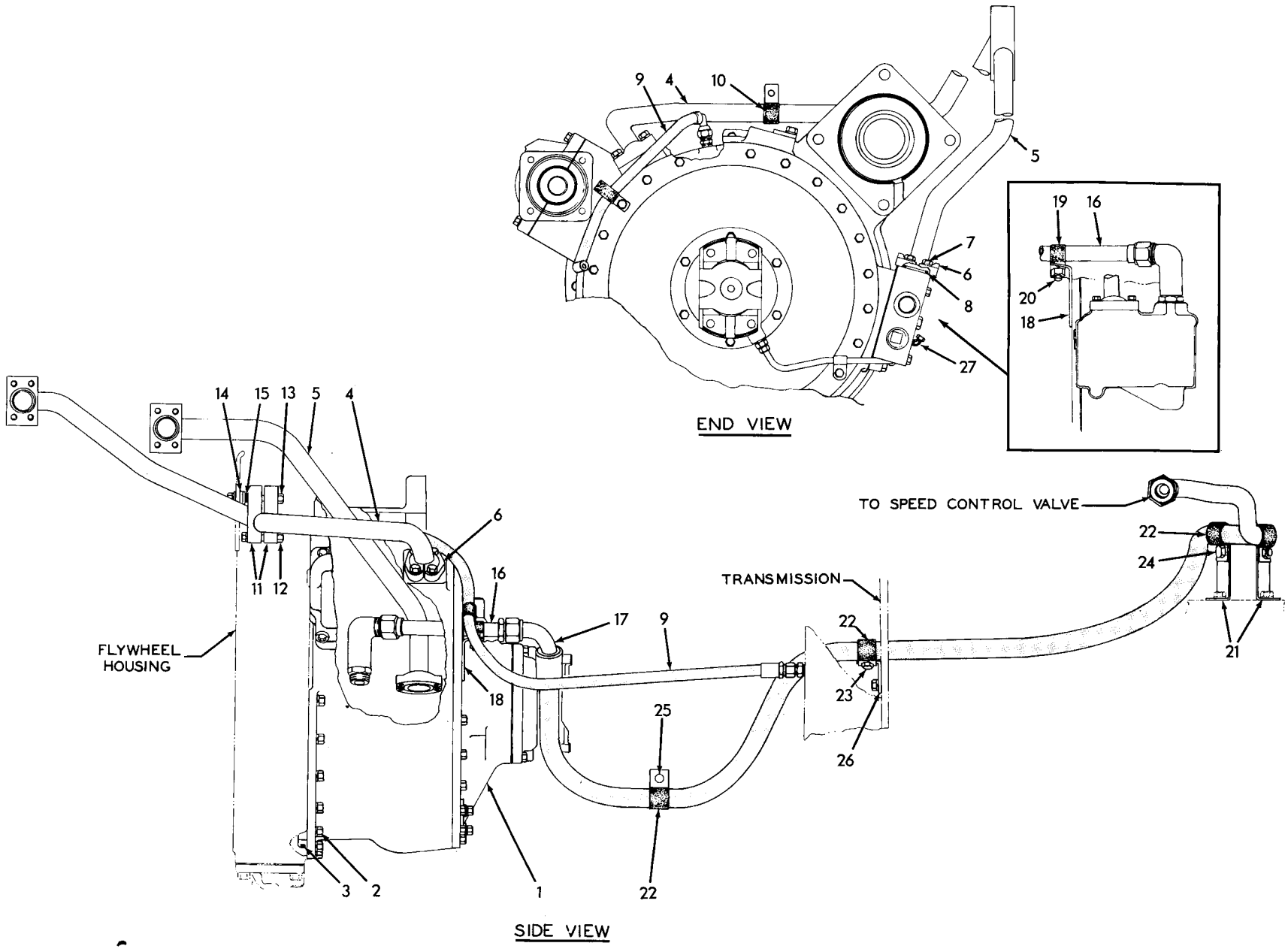
USAGE: Units with 21000H Engines only.

* Model 21G loaders prior to serial No. 14577
** Model 21GS; also Model 21G loaders serial No. 14577 and up.

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	639449	1	1	CONVERTER ASSEMBLY, torque (See page 126 for parts. Includes engine clutch)
	919464	1	1	ELBOW, flare type, 45°, 1/4" tube, 1/8"NPT male
	921467	1	1	CAP, flare type, 1/4" tube
2	040011	17	17	CAPSCREW, 7/16"NC x 1-1/2"
	904207	17	17	LOCKWASHER, 7/16"
3	924828	1	1	O-RING, torque converter to flywheel housing
4	644450	1	1	HOSE, converter to heat exchanger (See HOSE PARTS)
5	644449	1	1	HOSE, heat exchanger to converter (See HOSE PARTS)
6	921117	12	8	FLANGE, hose attaching (half only)
7	041250	24	16	CAPSCREW, 7/16"NC x 1-1/4"
	904207	24	16	LOCKWASHER, 7/16"
8	923664	6	6	O-RING, hose flange and tube
9	644453	1	1	HOSE, breather line (See HOSE PARTS)
	919172	2	2	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
10	644905	1	-	HOSE, charging line, heat exchanger to converter (See HOSE PARTS)
	648968	-	1	HOSE, charging line, heat exchanger to converter (See HOSE PARTS)
	919064	1	1	CONNECTOR, flare type, 1" tube, 1"NPT male
11	644906	1	-	HOSE, speed control valve to heat exchanger (See HOSE PARTS)
	648969	-	1	HOSE, speed control valve to heat exchanger (See HOSE PARTS)
	919246	1	1	CONNECTOR, flare type, 1" tube, 3/4"NPT male
12	642009	1	1	ANGLE, hose supporting
	904208	2	2	LOCKWASHER, 1/2"
	911035	2	2	NUT, jam, 1/2"NC
13	644010	1	1	CLIP, hose supporting (1-13/16" diam.)
14	070467	1	1	CAPSCREW, 1/2"NF x 1"
	910244	1	1	WASHER, plain, SAE std., 1/2"
	904208	1	1	LOCKWASHER, 1/2"
	911043	1	1	NUT, 1/2"NF
15	644457	6	7	CLIP, hose supporting (1-5/16" diam.)
16	036032	1	1	CAPSCREW, 3/8"NF x 3/4"
	911115	1	1	WASHER, plain, SAE std., 3/8"
	904206	1	1	LOCKWASHER, 3/8"
	911041	1	1	NUT, 3/8"NF
17	070467	2	3	CAPSCREW, 1/2"NF x 1"
	904208	2	3	LOCKWASHER, 1/2"
	911043	2	3	NUT, 1/2"NF
18	012871	1	1	CAPSCREW, 1/2"NC x 2-3/4"
	904208	1	1	LOCKWASHER, 1/2"
	910244	1	1	WASHER, plain, SAE std., 1/2"

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
19	613231	1	1	BLOCK, clip spacing
20	638397	1	1	ANGLE, supporting, charging line
21	628243	1	1	ANGLE, supporting, control valve hose, front
22	632436	1	2	BRACKET, supporting, control valve hose, rear
23	650270	-	1	TUBE, charging line hose (long)
24	040013	-	4	CAPSCREW, 7/16"NC x 1-3/4" (Early units)
	041250	-	4	CAPSCREW, 7/16"NC x 1-1/4" (Late units)
	904207	-	4	LOCKWASHER, 7/16"
25	650252	-	1	TUBE, speed control valve hose (short)
26	040013	-	4	CAPSCREW, 7/16"NC x 1-3/4" (Early units)
	041250	-	4	CAPSCREW, 7/16"NC x 1-1/4" (Late units)
	904207	-	4	LOCKWASHER, 7/16"
27	638780	-	1	CLIP, tube supporting (1" diam.)



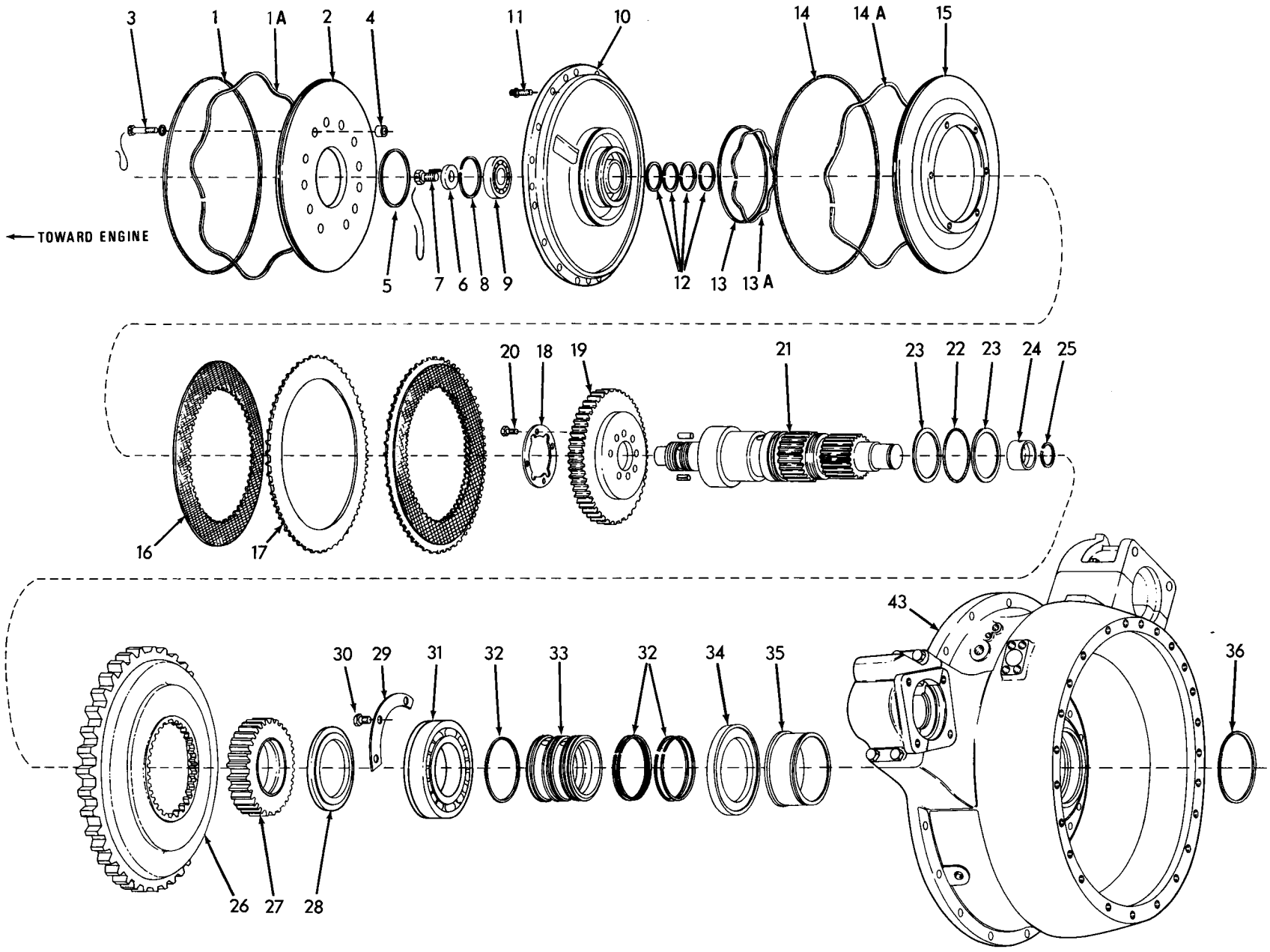
T-73771

TORQUE CONVERTER (Units w/ 21000-Mark II engine only)

TORQUE CONVERTER

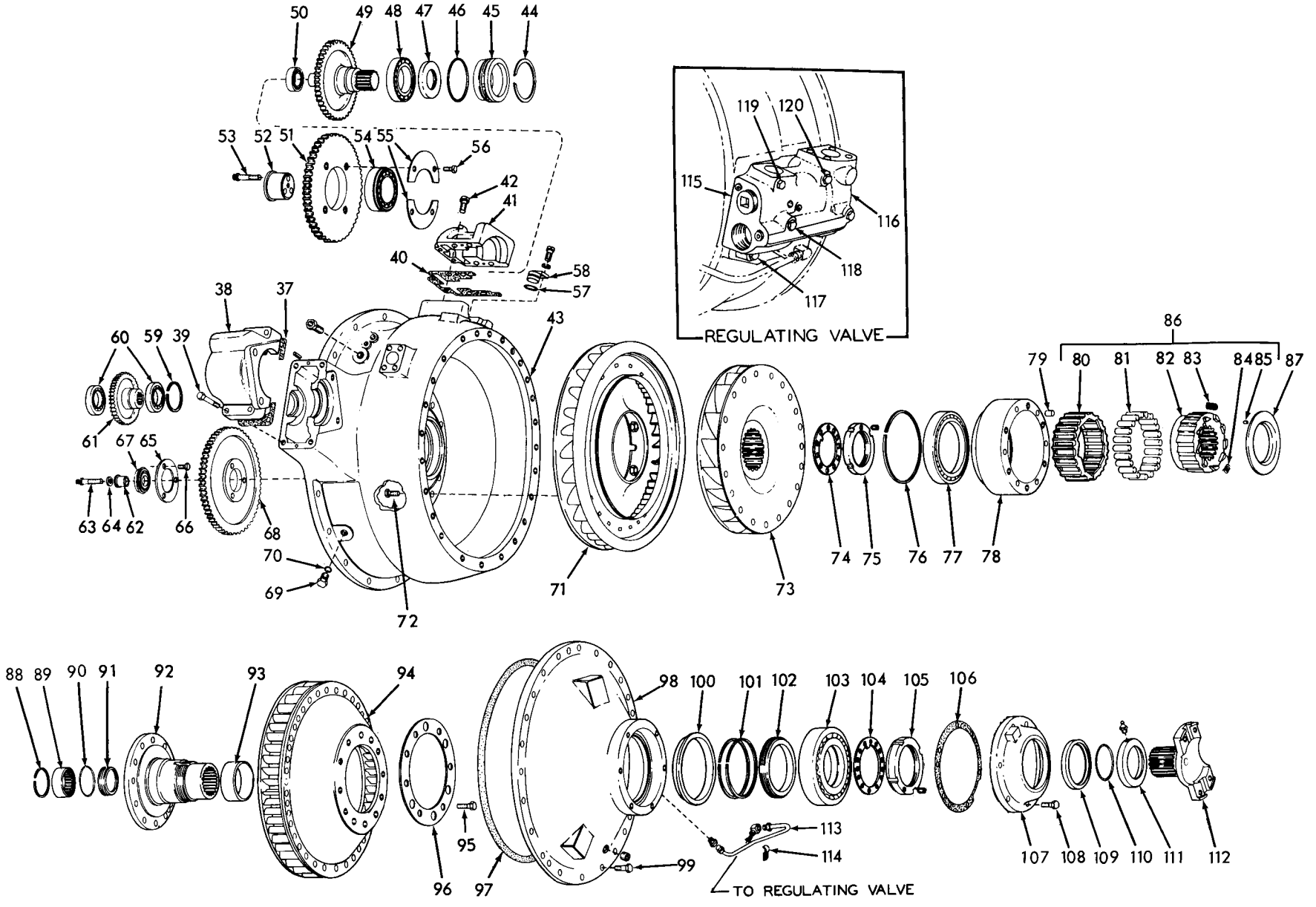
USAGE: Units with 21000-Mark II engine only

ITEM	PART NO.	QTY.	DESCRIPTION
1	661179	1	CONVERTER ASSEMBLY, torque (See page 126 for parts. Includes engine clutch)
2	040011	17	CAPSCREW, 7/16" NC x 1-1/2"
	904207	17	LOCKWASHER, 7/16"
3	924828	1	O-RING, torque converter to flywheel housing
4	661155	1	TUBE, converter to heat exchanger
	918315	4	CAPSCREW, hex-socket, 7/16" NC x 1-3/4"
	904207	4	LOCKWASHER, 7/16"
5	661156	1	TUBE, heat exchanger to converter
	918315	4	CAPSCREW, hex-socket, 7/16" NC x 1-3/4"
	904207	4	LOCKWASHER, 7/16"
6	921117	4	FLANGE, tube attaching (half only)
7	041250	8	CAPSCREW, 7/16" NC x 1-1/4"
	904207	8	LOCKWASHER, 7/16"
8	923664	4	O-RING, flange
9	644453	1	HOSE, breather line (See HOSE PARTS)
	919172	2	CONNECTOR, flare type, 3/8" tube, 3/8" NPT male
10	095869	1	CLIP, tube supporting (1-1/4" diam.)
11	658514	2	BLOCK, tube supporting
12	056721	1	CAPSCREW, 3/8" NC x 2-1/2"
13	041915	1	CAPSCREW, 3/8" NC x 3-1/2"
	044973	1	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8" NC
14	044973	3	WASHER, block spacing (large) } Use as req'd
15	055914	2	WASHER, block spacing (small) }
16	658515	1	TUBE ASSEMBLY, charging line (Includes nut)
	924069	1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16" straight thread (Includes washer, nut and O-RING 921214)
17	661140	1	HOSE, charging line, speed control valve to torque converter (See HOSE PARTS)
	919246	1	CONNECTOR, flare type, 1" tube, 3/4" NPT male
18	658516	1	ANGLE tube supporting
19	638780	1	CLIP, tube supporting (1" diam.)
20	035718	1	CAPSCREW, 1/2" NC x 3/4"
	904208	1	LOCKWASHER, 1/2"
	911028	1	NUT, 1/2" NC
21	632436	2	BRACKET, supporting, control valve hose, rear
22	644457	4	CLIP, hose supporting (1-5/16" diam.)
23	036032	1	CAPSCREW, 3/8" NF x 3/4"
	911115	1	WASHER, plain, SAE std., 3/8"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8" NF
24	070467	2	CAPSCREW, 1/2" NF x 1"
25	035718	1	CAPSCREW, 1/2" NC x 3/4"
	904208	3	LOCKWASHER, 1/2"
	910244	1	WASHER, plain, SAE std., 1/2"
	911043	2	NUT, 1/2" NF
26	628243	1	ANGLE, supporting, control valve hose, front
27	919464	1	ELBOW, flare type, 45°, 1/4" tube, 1/8" NPT
	921467	1	CAP, flare type, 1/4" tube



TORQUE CONVERTER PARTS (Front section)

T-71990



TORQUE CONVERTER PARTS (Rear section)

T-73619

TORQUE CONVERTER PARTS

639449 CONVERTER ASSEMBLY (See page 119)
661179 CONVERTER ASSEMBLY (See page 123)

ITEM	PART NO.	QTY.	DESCRIPTION
1	662988	1	RING, sealing, clutch disengaging piston (outer)
1A	662993	1	EXPANDER, piston ring
2	639563	1	PISTON, clutch disengaging
3	021527	12	CAPSCREW, drilled-hd., 3/8"NC x 1-5/8"
	911115	12	WASHER, plain, SAE std., 3/8"
	023633	3	WIRE, locking 1/16" x 12"
4	639535	12	SPACER, clutch carrier
5	639544	1	GASKET, sealing, clutch disengaging piston (inner)
6	639536	1	WASHER, end input shaft
	919180	1	PIN, spring, 1/8" x 5/8"
7	023416	1	CAPSCREW, drilled-hd., 1/2"NC x 1-1/2"
	023633	1	WIRE, locking, 1/16" x 12"
8	3035105	1	RING, snap, bearing retaining
9	097088	1	BEARING, ball, clutch carrier
10	639615	1	CARRIER, engine clutch
11	922051	16	SCREW, 12-pt. head, 3/8"NC x 1"
12	642716	4	RING, sealing, input shaft
13	662989	1	RING, sealing, clutch engaging piston (inner)
13A	662991	1	EXPANDER, piston ring
14	662990	1	RING, sealing, clutch engaging piston (outer)
14A	662992	1	EXPANDER, piston ring
15	640743	1	PISTON, clutch engaging
16	648043	3	PLATE, friction (bi-metallic)
17	639523	2	PLATE, friction (steel)
18	640742	1	WASHER, retaining, clutch driving ring
19	647404	1	RING, clutch driving
	922524	4	PIN, spring, 1/2" x 1-1/2"
	4054570	4	PIN, dowel, 7/16" x 1"
20	650399	4	CAPSCREW, self-locking, 3/8"NF x 7/8"
21	646985	1	SHAFT, input
22	632603	1	O-RING, input shaft
23	640791	2	RING, backing, input shaft o-ring
24	632585	1	RACE, inner, shaft rear bearing
25	632601	1	RING, snap, input shaft (rear end)
26	639604	1	PLATE, back
27	640779	1	GEAR ASSEMBLY, pump driving (Includes bushing)
28	639543	1	SPACER, input shaft bearing
29	632613	2	WASHER, bearing retaining (half only)
30	4254905	6	CAPSCREW, 3/8"NF x 3/4"

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
31	645672	1	BEARING, ball, input shaft
32	639532	5	RING, sealing
33	639524	1	CARRIER, seal ring
34	639520	1	RING, wear
35	639522	1	SLEEVE, wear
36	640784	1	RING, snap, wear sleeve retaining
37	640783	1	GASKET, transmission pump gear housing
38	------	-	HOUSING, transmission pump gears (Not serviced. Order item 43)
39	053616	4	CAPSCREW, 3/8"NC x 1-3/4"
40	632598	1	GASKET, shovel pump gear housing
41	------	1	HOUSING, shovel pump gears (Not serviced. Order item 43)
42	035061	6	CAPSCREW, 1/2"NC x 1-1/4"
43	632649	1	HOUSING ASSEMBLY (Includes items 34 thru 42)
	902071	1	BUSHING, pipe reducing, 1"NPT to 3/8"NPT
	912768	1	PLUG, pipe, 1"NPT
	909091	3	PLUG, pipe, hex-socket, 3/4"NPT
	921459	4	PIN, spring, 3/8" x 5/8"
44	3027756	1	RING, snap, driving gear retainer
45	638609	1	RETAINER, shovel pump driving gear
46	923816	1	O-RING, driving gear retainer
47	3037990	1	SEAL, pump driving gear
48	054073	1	BEARING, ball, shovel pump driving gear (rear)
49	638617	1	GEAR, driving, shovel pump
50	638612	1	BEARING, roller, shovel pump driving gear (front)
51	638618	1	GEAR, idler, shovel pump
52	638616	1	SHAFT, shovel pump idler gear
53	644927	3	CAPSCREW, 12-pt. head, 3/8"NC x 2-1/2"
54	638611	1	BEARING, roller, shovel pump idler gear
55	638610	2	WASHER, retaining, idler gear bearing
56	639534	4	CAPSCREW, self-locking, 3/8"NF x 5/8"
57	923575	1	O-RING, hole plug
58	639955	1	PLUG, hole
	916222	2	CAPSCREW, 7/16"NC x 7/8"
	904207	2	LOCKWASHER, 7/16"
59	4053627	1	RING, snap, bearing retaining
60	067766	2	BEARING, ball, transmission pump driving gear

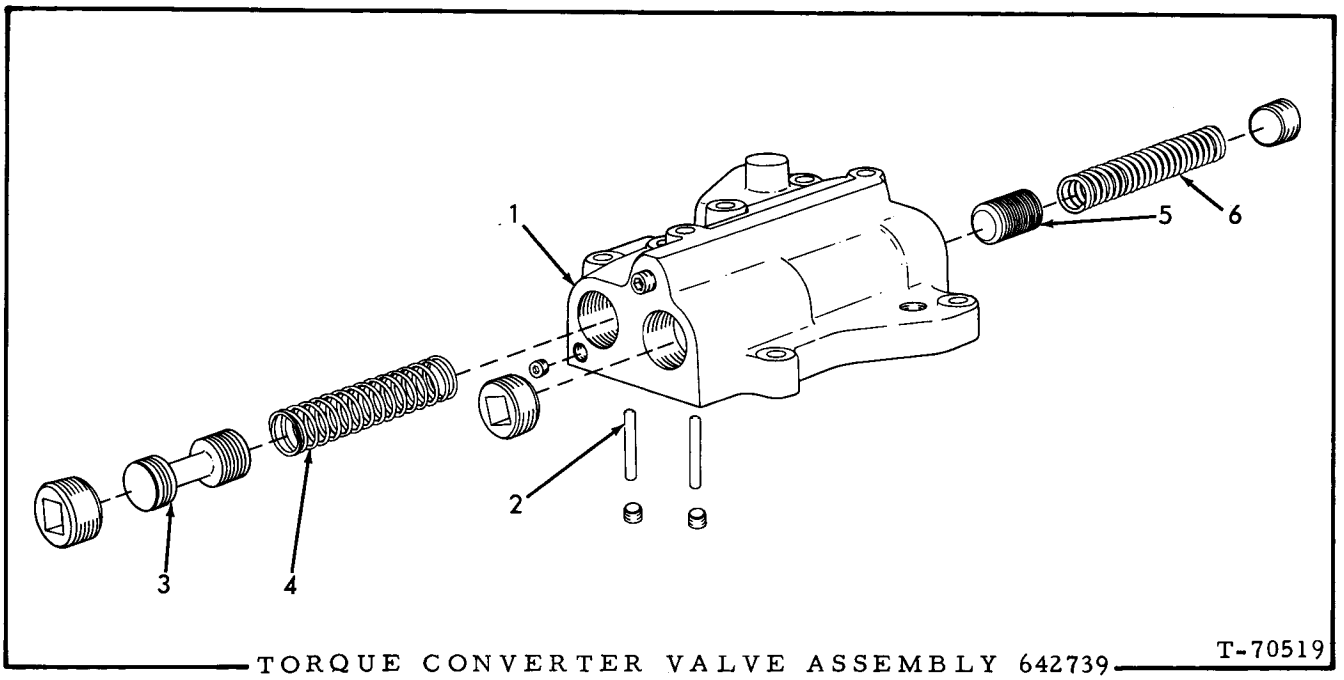
(Continued)

TORQUE CONVERTER PARTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
61	640778	1	GEAR, driving, transmission pump
62	632604	1	SHAFT, transmission pump idler gear
63	922850	1	SCREW, 12-pt. head, 3/8"NC x 2"
64	643763	1	WASHER, plain
65	628492	1	RETAINER, idler gear bearing
66	639534	3	CAPSCREW, self-locking, 3/8"NF x 5/8"
67	645269	1	BEARING, ball, transmission pump idler gear (Includes snap ring)
68	632630	1	GEAR, idler, transmission pump
69	632615	2	PLUG, hole — Early units only
70	921884	2	O-RING, hole plug — Early units only
71	632624	1	WHEEL ASSEMBLY, guide (stationary)(Serviced only as a unit)
72	012992	10	CAPSCREW, 3/8"NF x 1-1/4"
73	639529	1	WHEEL, impeller
74	632581	1	WASHER, locking, impeller retaining nut
75	632582	1	NUT, impeller retaining
	921401	1	SETSCREW, hex-socket, half-dog-pt., 5/16"NC x 3/4"
76	632590	1	RING, snap, bearing retaining
77	632584	1	BEARING, ball, over-running clutch cam
78	632652	1	RACE, over-running clutch
79	632600	6	PIN, dowel, over-running clutch race
80	------	1	CAGE, clutch rollers — Order item 86
81	------	22	ROLLER, over-running clutch — Order item 86
82	------	1	CAM, over-running clutch — Order item 86
83	------	2	SPRING, cage return — Order item 86
84	------	9	SPRING, bumper — Order item 86
85	634342	1	PIN, driving, thrust washer
86	638352	1	CLUTCH KIT, over-running, torque converter (Consists of items 80 thru 85)
87	632606	1	WASHER, thrust
88	632588	1	RING, snap, bearing retaining
89	632591	1	ROLLER ASSEMBLY, input shaft rear bearing
90	923814	1	O-RING, drive shaft yoke
91	632620	1	CARRIER, o-ring
92	632635	1	FLANGE, turbine wheel

(Continued)

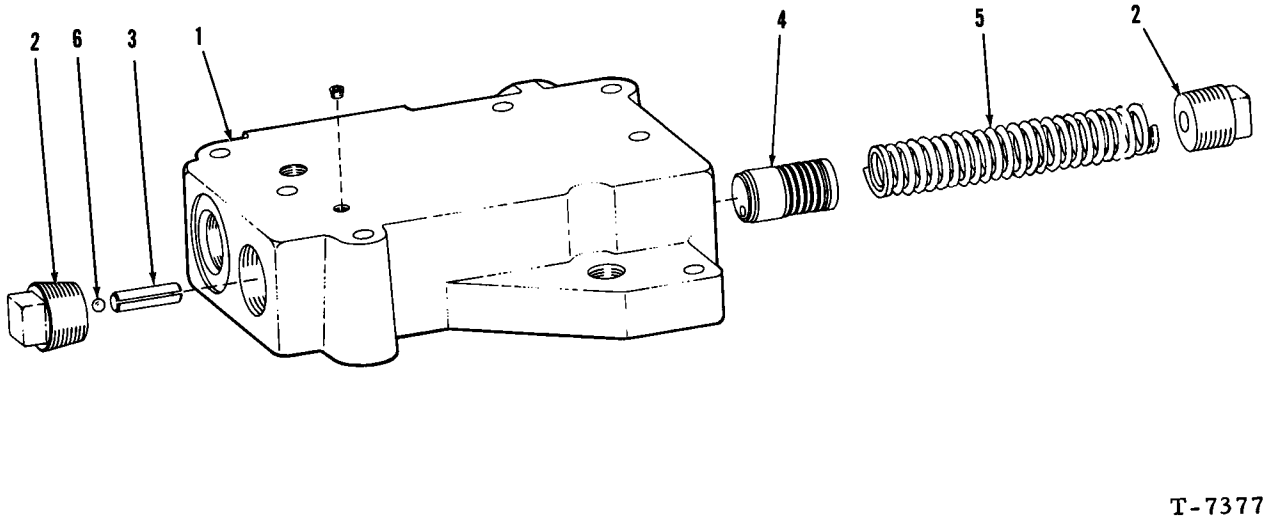
ITEM	PART NO.	QTY.	DESCRIPTION
93	632589	1	SLEEVE, wear, turbine wheel flange
94	632632	1	WHEEL, turbine
95	012992	6	CAPSCREW, 3/8"NF x 1-1/4"
96	632595	1	WASHER, dowel pin retaining
97	632587	1	GASKET, end plate
98	632623	1	PLATE ASSEMBLY, rear end (Includes item 100)
	909091	1	PLUG, pipe, hex-socket, 3/4"NPT
99	013058	24	CAPSCREW, 3/8"NC x 1-1/4"
100	632592	1	SLEEVE, wear, rear end plate
101	640722	2	RING, sealing
102	640096	1	CARRIER, seal ring
103	632583	1	BEARING, ball, turbine wheel flange
104	624816	1	WASHER, locking, bearing retaining nut
105	624815	1	NUT, bearing retaining
	921401	1	SETSCREW, hex-socket, half-dog-pt., 5/16"NC x 3/4"
106	052168	1	GASKET, rear bearing retainer
107	632638	1	RETAINER, rear bearing
108	013058	6	CAPSCREW, 3/8"NC x 1-1/4"
109	632611	1	SEAL, oil, rear end
110	923585	1	O-RING, drive shaft yoke
111	632621	1	SLEEVE, drive shaft yoke
	914465	1	FITTING, lubricating, straight, 1/8"NPT
112	632631	1	YOKE ASSEMBLY, drive shaft (Includes item 111)
113	640097	1	TUBE ASSEMBLY, rear seal drain (Includes nuts)
	918116	1	CONNECTOR, inverted flare, 3/8" tube, 3/8"NPT male
	918115	1	ELBOW, inverted flare, 90°, 3/8" tube, 3/8"NPT male
114	639314	1	CLIP, tube supporting
115	639625	1	GASKET, valve housing to converter housing (For VALVE 642739 only)
	658556	1	GASKET, regulating valve (For VALVE 658517 only)
116	642739	1	VALVE ASSEMBLY, pressure and lubrication (See page 130 for parts)(For CONVERTER 639449 only)
	658517	1	VALVE ASSEMBLY, pressure regulating (See page 131 for parts) (For CONVERTER 661179 only)
117	070960	2	CAPSCREW, 3/8"NC x 1-1/2"(1 less for VALVE 658517)
118	058936	1	CAPSCREW, 3/8"NC x 2-3/4"(Not for VALVE 658517)
119	056320	2	CAPSCREW, 3/8"NC x 3"(4 additional for VALVE 658517)
120	086238	2	CAPSCREW, 3/8"NC x 3-3/4"(Not for VALVE 658517)



TORQUE CONVERTER VALVE ASSEMBLY 642739 T-70519

USAGE: See page 126

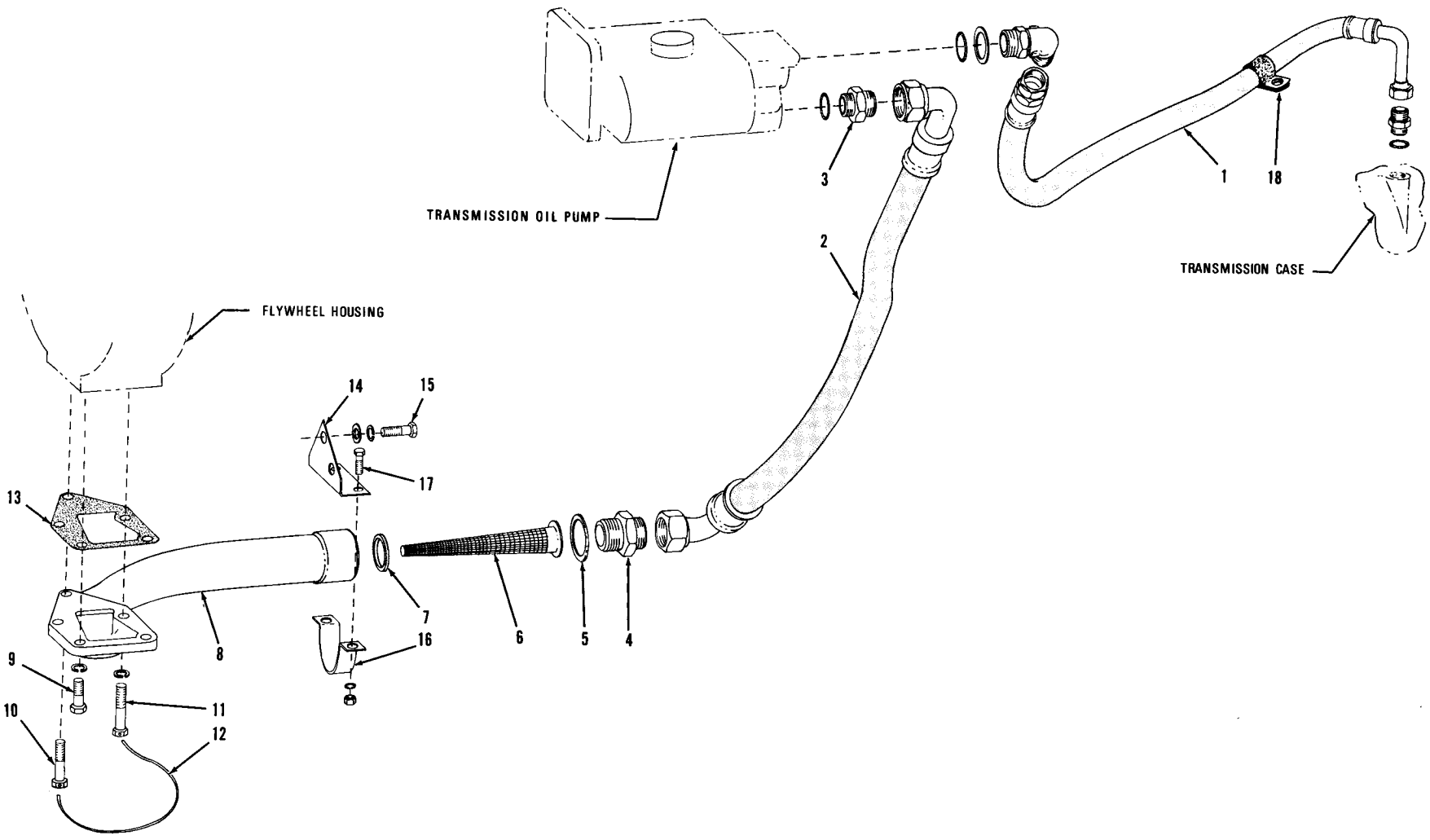
ITEM	PART NO.	QTY.	DESCRIPTION
1	639627	1	HOUSING
	910231	4	PLUG, pipe, hex-socket, 1/8"NPT
	907859	2	PLUG, pipe, hex-socket, 1/4"NPT
	901666	3	PLUG, pipe, sq-socket, 1"NPT
2	642094	2	PIN, stop (1/4" x 1-1/2")
3	632636	1	PISTON, lubricating valve
4	642734	1	SPRING, lubricating valve
5	639533	1	PISTON, pressure valve
6	639551	1	SPRING, pressure valve



TORQUE CONVERTER VALVE ASSEMBLY 658517

USAGE: See page 126

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	HOUSING (Not serviced separately)
	910231	1	PLUG, pipe, hex-socket, 1/8" NPT
2	658746	2	PLUG,regulating valve
3	918390	1	PIN, spring, 3/8" x 1-1/4" (piston stop)
4	659774	1	PISTON, regulating valve
5	639551	1	SPRING, regulating valve
6	915904	1	BALL, steel, 5/16" diam. (Used selectively)



ENGINE CLUTCH SCAVENGING SYSTEM

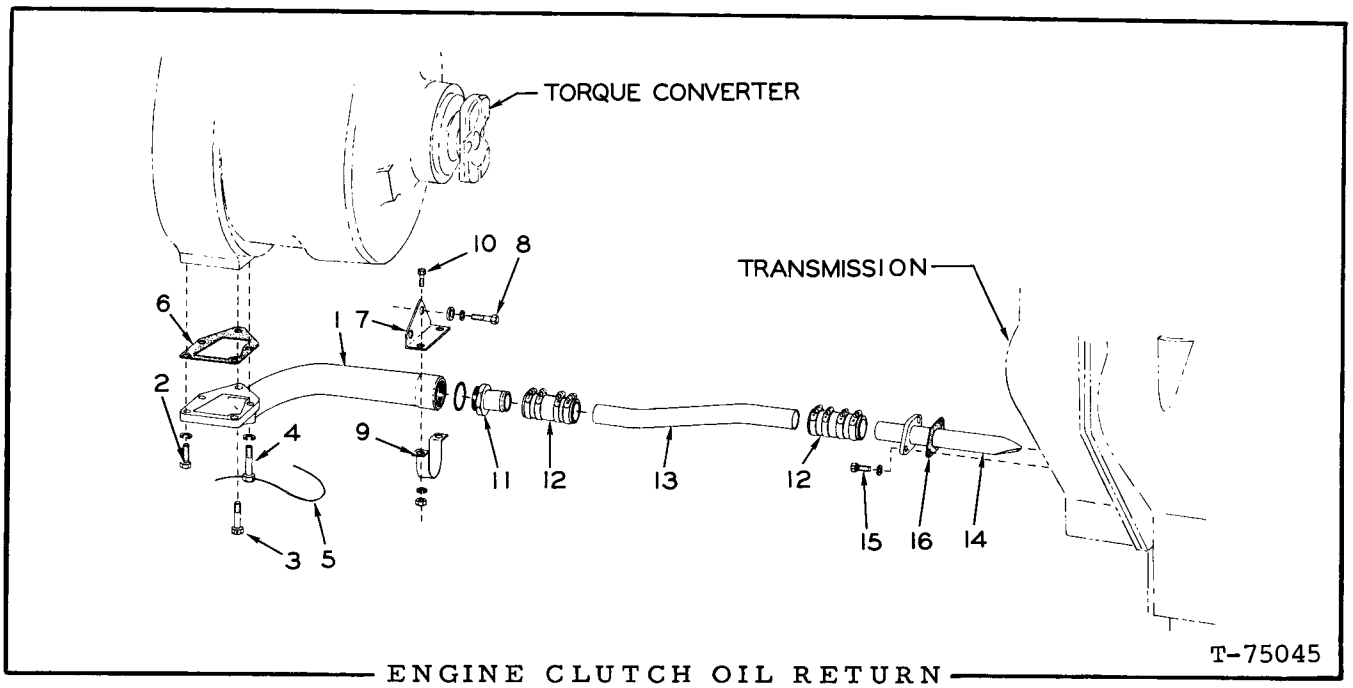
T-75046

ENGINE CLUTCH SCAVENGING SYSTEM

USAGE: Loaders prior to serial No. 14577

ITEM	PART NO.	QTY.	DESCRIPTION
1	644451	1	HOSE, oil return, pump to transmission (See HOSE PARTS)
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread, (Includes O-RING 921214)
	921215	1	ELBOW, adjustable, 45°, flare type, 1" tube, 1-5/16" (Includes washer, nut and O-RING 921214)
2	644452	1	HOSE, oil return, flywheel housing to pump (See HOSE PARTS)
3	641134	1	CONNECTOR, flare type, 1-1/4" tube, 1-5/16" straight thread (Includes O-RING 921214)
4	640575	1	ADAPTER, oil return hose
5	641109	1	GASKET, oil return hose adapter
6	641110	1	SCREEN, flywheel housing drain elbow
7	640663	1	RING, sealing (rubber)
8	641052	1	ELBOW, drain, flywheel housing
9	035733	3	CAPSCREW, 1/2"NC x 1-3/8"
10	054069	1	CAPSCREW, drilled-hd., 1/2"NC x 2"
11	041481	1	CAPSCREW, drilled-hd., 1/2"NC x 2-1/4"
	904208	4	LOCKWASHER, 1/2"
12	023633	1	WIRE, locking, 1/16" x 12"
13	640636	1	GASKET, flywheel housing drain elbow
14	640667	1	BRACKET, supporting, drain elbow
15	074145	2	CAPSCREW, 3/8"NC x 1-5/8"
	904206	2	LOCKWASHER, 3/8"
	044973	2	WASHER, plain
16	640664	1	CLAMP, supporting, drain elbow
17	035167	2	CAPSCREW, 3/8"NF x 7/8"
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
18	644457	1	CLIP, supporting, return hose

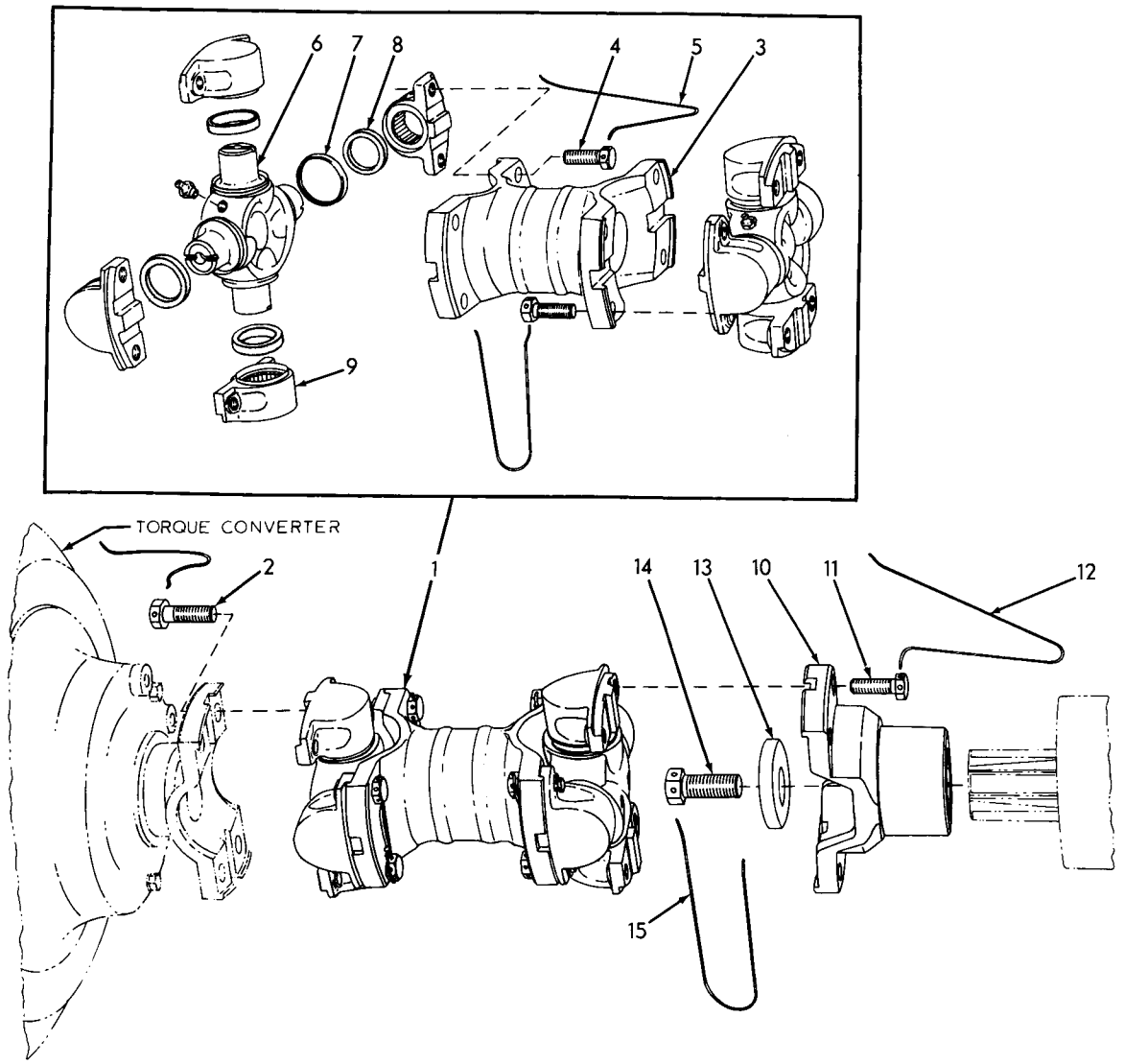
"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



ENGINE CLUTCH OIL RETURN

USAGE: Loaders serial No. 14577 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	651629	1	ELBOW, drain, flywheel housing
2	035733	3	CAPSCREW, 1/2"NC x 1-3/8"
3	054069	1	CAPSCREW, drilled-hd., 1/2"NC x 2"
4	041481	1	CAPSCREW, drilled-hd., 1/2"NC x 2-1/4"
	904208	4	LOCKWASHER, 1/2"
5	023633	1	WIRE, locking, 1/16" x 12"
6	640636	1	GASKET, flywheel housing drain elbow
7	640667	1	BRACKET, supporting, drain elbow
8	074145	2	CAPSCREW, 3/8"NC x 1-5/8"
	904206	2	LOCKWASHER, 3/8"
	044973	2	WASHER, plain
9	640664	1	CLAMP, supporting, drain elbow
10	035439	2	CAPSCREW, 3/8"NC x 1"
	904206	2	LOCKWASHER, 3/8"
	911026	2	NUT, 3/8"NC
11	651694	1	ADAPTER, connecting hose (Includes O-RING 921887)
12	631788	2	HOSE, connecting tube
	921913	8	CLAMP, hose, 1-13/16" to 2-3/4" diam.
13	651654	1	TUBE, connecting
14	651698	1	TUBE, spill
15	035439	2	CAPSCREW, 3/8"NC x 1"
	904206	2	LOCKWASHER, 3/8"
16	651655	1	GASKET, spill tube



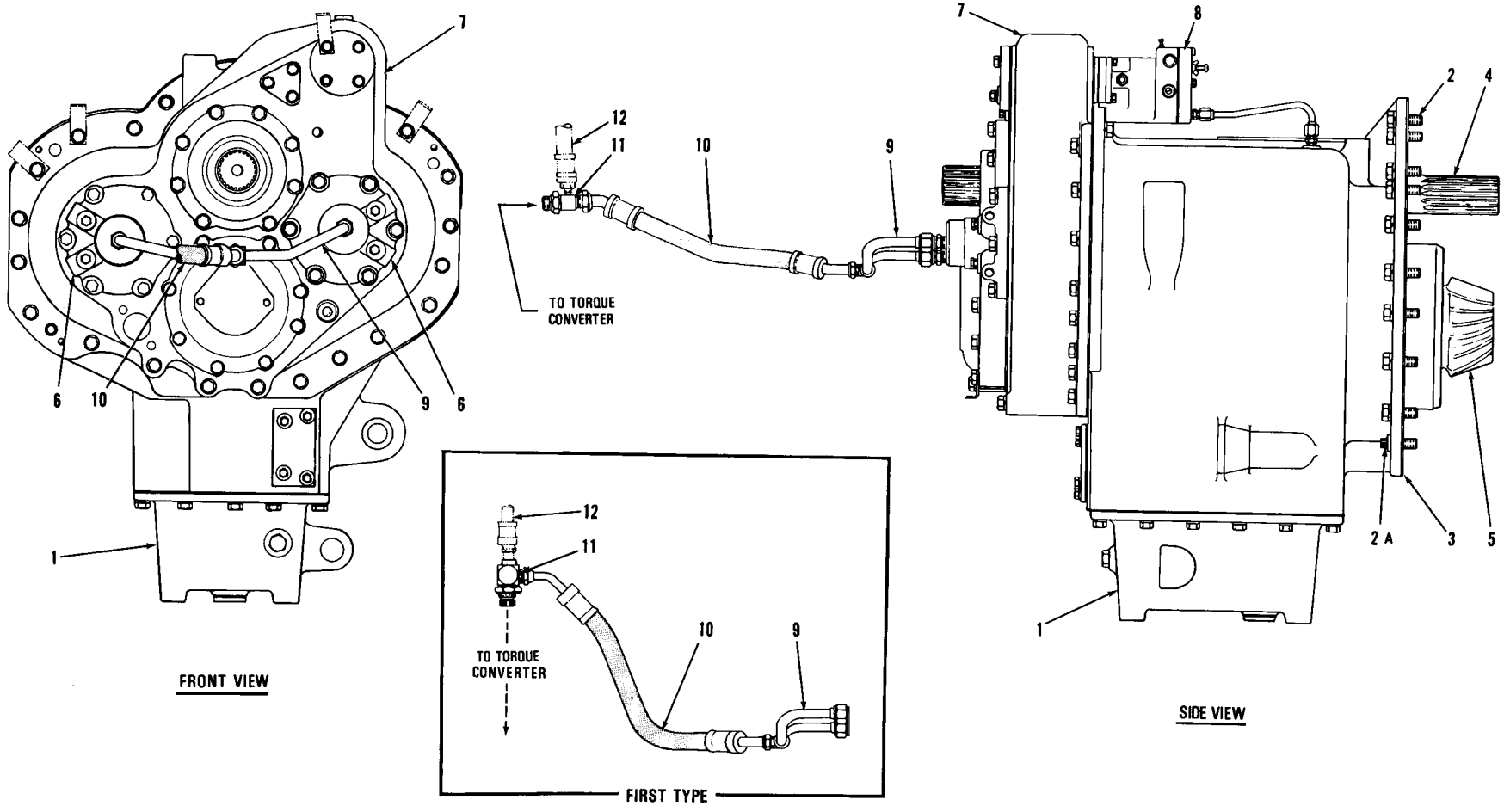
UNIVERSAL JOINT T-71992

ITEM	PART NO.	QTY.	DESCRIPTION
1	639511	1	JOINT ASSEMBLY, converter to transmission (Consists of items 3 thru 9)
2	035689	4	CAPSCREW, drilled-hd., 1/2"NF x 1-3/8"
	023633	2	WIRE, locking, 1/16" x 12"
3	639510	1	TUBE, connecting
4	035689	8	CAPSCREW, drilled-hd., 1/2"NF x 1-3/8"
5	023633	4	WIRE, locking, 1/16" x 12"
6	090311	2	SPIDER ASSEMBLY (Includes item 7 and FITTING indented below)
	912808	2	FITTING, lubricating, straight, 1/4"NF
7	069954	8	SHIELD, dust

(Continued)

UNIVERSAL JOINT (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	069965	8	WASHER, sealing, spider bearing
9	069962	8	BEARING ASSEMBLY (Each includes 30 rollers, 1 washer and 1 retainer)(Serviced only as a unit)
10	628794	1	YOKE, rear
11	035689	4	CAPSCREW, drilled-hd., 1/2"NF x 1-3/8"
12	023633	2	WIRE, locking, 1/16" x 12"
13	052761	1	WASHER, yoke retaining
14	075950	1	CAPSCREW, yoke retaining (drilled-hd., 3/4"NF x 1-3/4")
15	023633	1	WIRE, locking, 1/16" x 12"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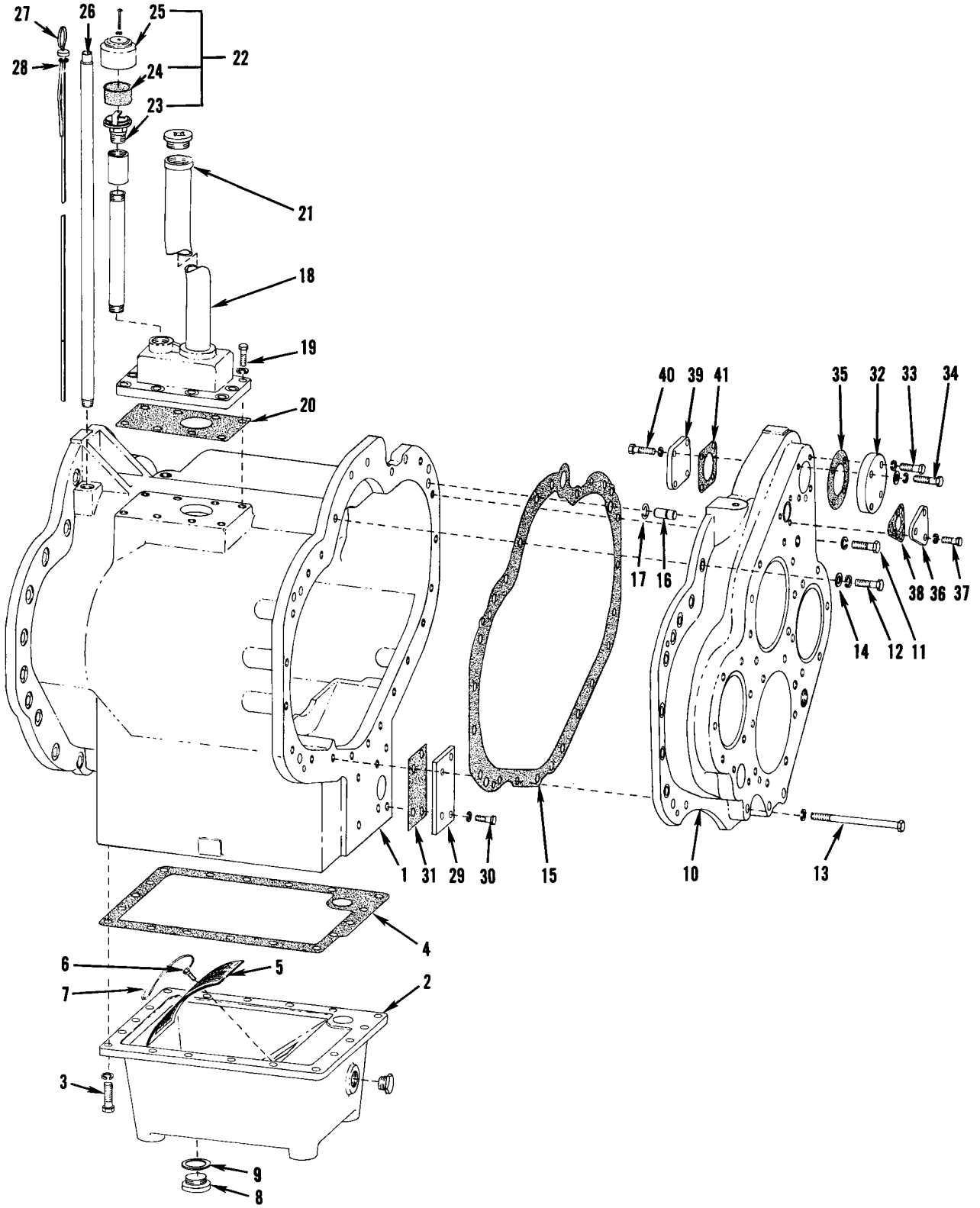
T-70544

TRANSMISSION

* Tractors with Ground Speed Governor
** Tractors without Ground Speed Governor

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION	
1	639940	-	1	TRANSMISSION ASSEMBLY (Includes items 4 thru 7)(Loaders prior to #14577)	
	656231	-	1	TRANSMISSION ASSEMBLY (Includes items 4 thru 7)(Loaders #14577 and up)	
	919840	-	1	PLUG, pipe, hex-hd., 1/4"NPT	
	644710	1	-	TRANSMISSION ASSEMBLY (Includes items 4 thru 8)(Loaders prior to #14577)	Not for Model 21GS
	654401	1	-	TRANSMISSION ASSEMBLY (Includes items 4 thru 8)(Loaders #14577 and up)	Not for Model 21GS
2	631795	17	18	CAPSCREW, Nylok, 5/8"NF x 1-3/4"	
2A	647555	2	2	CAPSCREW, 12-point, 5/8"NF x 1-3/4"	
	904209	19	20	LOCKWASHER, 5/8"	
3	657372	1	1	GASKET, case to steering clutch housing	
4	------	-	-	See TRANSMISSION INPUT SHAFT	
5	------	-	-	See TRANSMISSION BEVEL PINION SHAFT	
6	------	-	-	See CLUTCH SHAFTS	
7	------	-	-	See TRANSMISSION CASE AND COVERS	
8	------	-	-	See GROUND SPEED GOVERNOR	
9	641093	1	1	TUBE ASSEMBLY, oil jumper (Includes nuts)	
	919472	2	2	CONNECTOR, flare type, 5/8" tube, 1/2"NPT male	
10	658607	1	1	HOSE, oil supply, converter to transmission (See HOSE PARTS) (Units with 21000-Mark II engines)	
	644968	1	1	HOSE, oil supply, converter to transmission (See HOSE PARTS) (Units with 21000H engine)	
11	658610	1	1	TEE, oil supply hose (Includes nut, washer, and O-RING 921206) (Units with 21000-Mark II engines)	
	641386	1	1	TEE, oil supply hose (Includes nut, washer, and O-RING 921206) (Units with 21000H engine)	
	921206	1	1	O-RING, elbow sealing	
12	------	-	-	HOSE (See TRANSMISSION LUBRICATING OIL PRESSURE GAUGE)	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T-75047

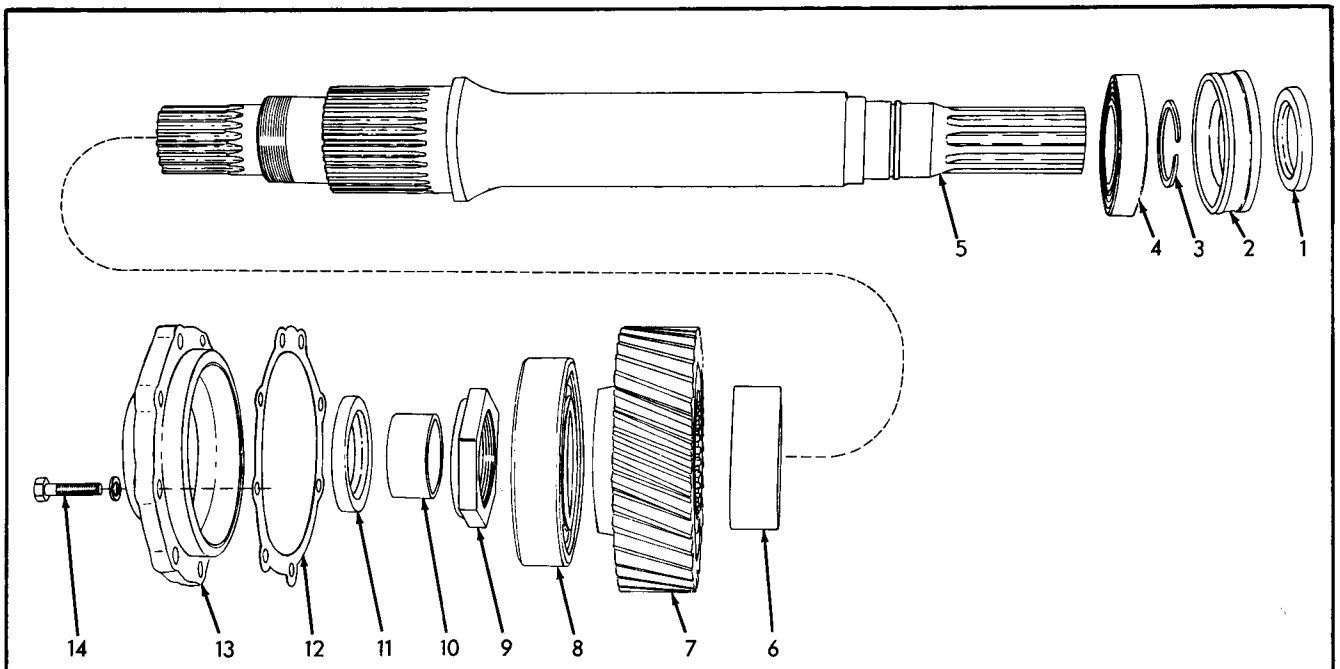
TRANSMISSION CASE AND COVERS

ITEM	PART NO.	QTY.	DESCRIPTION
1	641872	1	CASE, transmission (Used prior to loaders #14577)
	656197	1	CASE, transmission (Loaders #14577 and up)
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT (Not used when GROUND SPEED GOVERNOR is installed)
2	629367	1	PAN, oil
	920525	1	PLUG, pipe, hex-hd., 3/4"NPT (Not used when special PUSH-START PUMP is installed)
3	035190	18	CAPSCREW, 1/2"NC x 1-1/2"
	904208	18	LOCKWASHER, 1/2"
4	629373	1	GASKET, oil pan
5	632067	1	SCREEN, oil pan
6	606858	2	CAPSCREW, drilled-hd., 3/8"NC x 3/4"
7	023633	1	WIRE, locking 1/16" x 12"
8	035250	1	PLUG, drain
9	667252	1	GASKET, drain plug
10	640120	1	COVER, front (Used prior to loaders #14577)
	651625	1	COVER, front (Loaders #14577 and up)
11	035190	17	CAPSCREW, 1/2"NC x 1-1/2"
12	035236	3	CAPSCREW, 1/2"NC x 1-3/4"
13	099637	3	CAPSCREW, 1/2"NC x 6"
	904208	23	LOCKWASHER, 1/2"
14	058614	3	WASHER, plain
15	657373	1	GASKET, front cover
16	624695	3	PIN, dowel, front cover
17	623804	3	RING, snap, dowel pin
18	630224	1	FILLER, oil
19	044249	10	CAPSCREW, 3/8"NC x 1-1/8"
	904206	10	LOCKWASHER, 3/8"
20	627346	1	GASKET, oil filler to case
21	035250	1	PLUG, oil filler
22	3002766	1	BREATHER ASSEMBLY (Consists of items 23 thru 25)
	901767	1	COUPLING, pipe, 3/4"NPT
	914838	1	NIPPLE, pipe, 3/4"NPT x 8"
23	3002767	1	BASE, breather
24	3002769	1	ELEMENT, breather
25	3002768	1	CAP, breather
	914172	1	SCREW, machine, #10NF x 1-1/4"
	904203	1	LOCKWASHER, #10

(Continued)

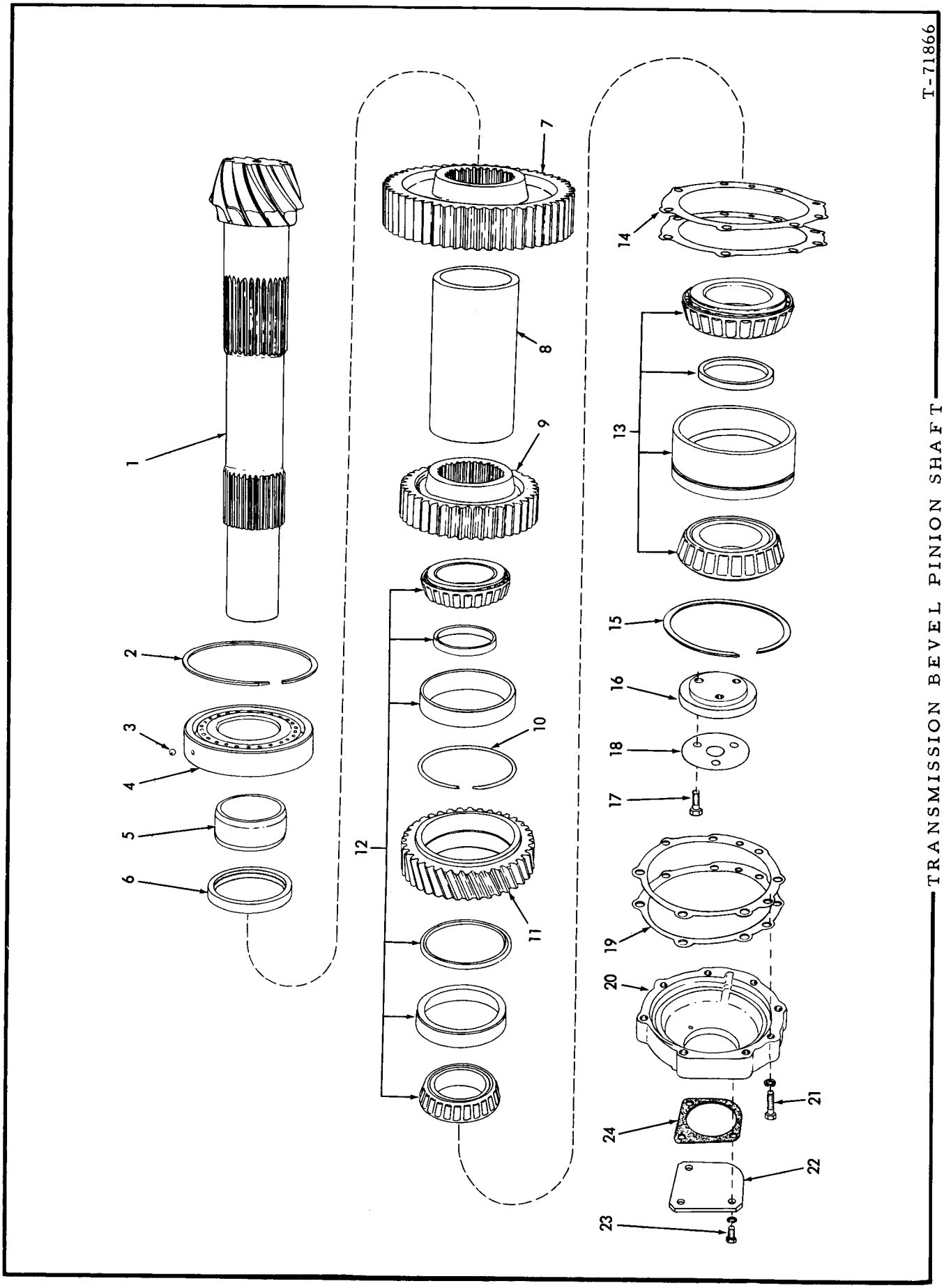
ITEM	PART NO.	QTY.	DESCRIPTION	
26	629504	1	PIPE, oil level gauge	
27	650361	1	GAUGE ASSEMBLY, oil level (Includes item 28)	
28	641922	1	WASHER, felt, oil level gauge	
29	644421	1	COVER, diverter valve pad	Not used when special PUSH-START PUMP is installed
30	035439	4	CAPSCREW, 3/8"NC x 1"	
	904206	4	LOCKWASHER, 3/8"	
31	644422	1	GASKET, valve pad cover	
32	628786	1	COVER, large hole	
33	040382	3	CAPSCREW, 3/8"NC x 1-3/8"	
34	070960	1	CAPSCREW, 3/8"NC x 1-1/2"	
	904206	4	LOCKWASHER, 3/8"	
	911115	1	WASHER, plain, SAE std., 3/8"	
35	630582	1	GASKET, large hole cover	
36	628761	1	COVER, small hole	
37	044249	3	CAPSCREW, 3/8"NC x 1-1/8"	
	904206	3	LOCKWASHER, 3/8"	
38	630583	1	GASKET, small hole cover	
39	630584	1	COVER, hole (rear)	Not used on units with GROUND SPEED GOVERNOR
40	924240	4	CAPSCREW, Nylok, 5/16"NC x 1-1/4"	
	904205	4	LOCKWASHER, 5/16"	
41	628804	1	GASKET, rear cover	

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



TRANSMISSION INPUT SHAFT T-71865

ITEM	PART NO.	QTY.	DESCRIPTION
1	638607	1	SEAL, oil, rear end
2	628789	1	RETAINER, rear oil seal
3	624688	1	RING, snap, shaft
4	624445	1	BEARING, roller
5	628797	1	SHAFT
6	628774	1	SPACER, drive gear
7	628790	1	GEAR, drive (37 teeth)
8	628767	1	BEARING, ball
9	639760	1	NUT, bearing retaining
10	628772	1	SLEEVE, wear, oil seal
11	629040	1	SEAL, oil, front end
12	628787	1	GASKET, oil seal retainer
13	628796	1	RETAINER, front, oil seal
14	035236	8	CAPSCREW, 1/2"NC x 1-3/4"
	904208	8	LOCKWASHER, 1/2"


T-71866
TRANSMISSION BEVEL PINION SHAFT
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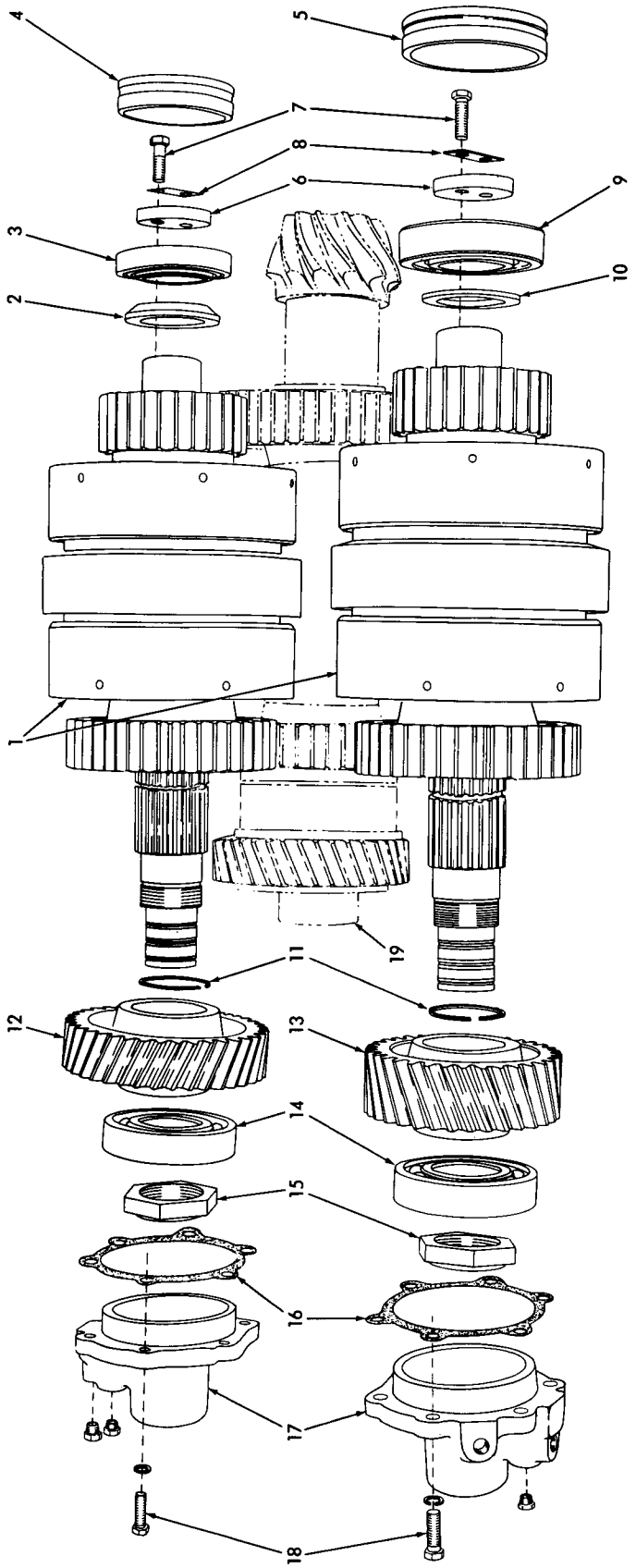
TRANSMISSION BEVEL PINION SHAFT

ITEM	PART NO.	QTY.	DESCRIPTION	
1	650007	1	PINION, bevel (12 teeth)	
2	629355	1	RING, snap, bearing retaining	
3	905360	1	BALL, retaining, rear bearing (3/8" diam.)	
4	644337	1	BEARING, roller, rear end	
5	628788	1	SPACER, low speed gear	
6	648619	1	SEAL, oil	
7	629402	1	GEAR, low speed (53 teeth)	
8	629356	1	SLEEVE, gear spacing	
9	629401	1	GEAR, high speed (40 teeth)	
10	629138	1	RING, snap, idling gear	
11	628792	1	GEAR, idling (38 teeth)	
12	628130	1	BEARING, roller (Consists of 2 roller assemblies, 2 cups and 2 spacers. Serviced only as a unit)	
13	628783	1	BEARING, roller, front end (Consists of 2 roller assemblies, 1 cup and 1 spacer. Serviced only as a unit)	
14	628764	7	SHIM, pinion adjustment (.005" thick)	Use as required
	628762	7	SHIM, pinion adjustment (.007" thick)	
	628763	7	SHIM, pinion adjustment (.010" thick)	
15	628879	1	RING, snap, front bearing	
16	629357	1	WASHER, end (For units with PUSH-START PUMP)	
	644444	1	WASHER, end (For units without PUSH-START PUMP)	
17	035073	3	CAPSCREW, 1/2"NF x 1-3/4"	
18	629358	1	PLATE, capscrew locking	
19	628765	5	SHIM, bearing retainer (.005" thick)	Use as required
	628766	5	SHIM, bearing retainer (.007" thick)	
20	628769	1	RETAINER, front bearing	
21	028979	7	CAPSCREW, 1/2"NC x 2-1/2"	
	012871	1	CAPSCREW, 1/2"NC x 2-3/4"	
	904208	8	LOCKWASHER, 1/2"	
22	643027	1	COVER, push-start pump pad	Not used with special PUSH-START PUMP
23	920539	3	CAPSCREW, Nylok, 3/8"NC x 1"	
	904206	3	LOCKWASHER, 3/8"	
24	632065	1	GASKET, pump pad cover	


T-71864
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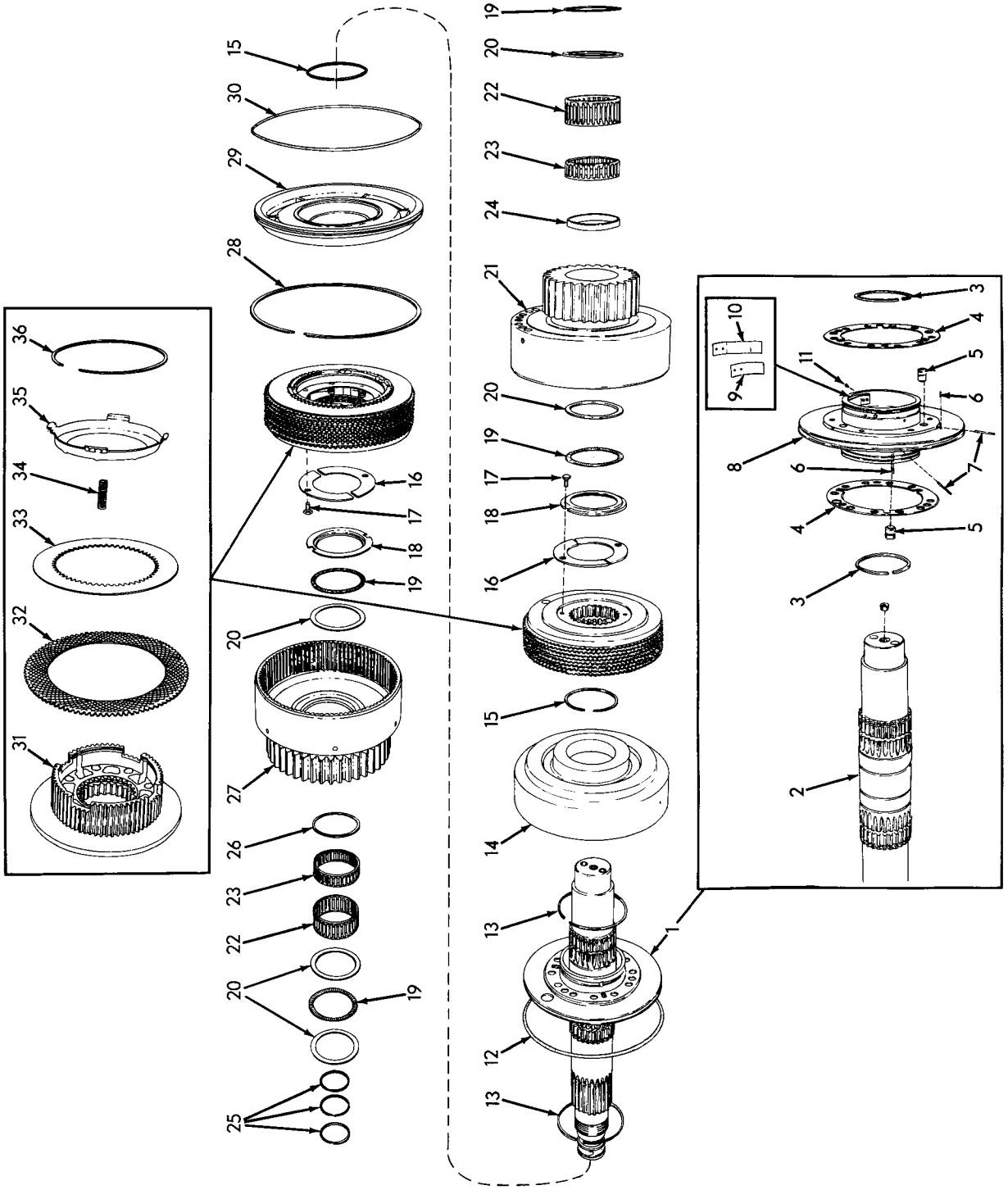
TRANSMISSION CLUTCH SHAFTS

ITEM	PART NO.	QTY.	DESCRIPTION
1	642944	2	CLUTCH AND SHAFT ASSEMBLY (See page 149 for parts)
2	629397	1	SPACER, rear bearing, reverse clutch
3	042951	1	BEARING, roller, reverse clutch, rear
4	642669	1	PLUG, cup, reverse clutch rear bearing
5	642670	1	PLUG, cup, forward clutch rear bearing
6	629350	2	WASHER, clutch shaft end
7	035018	4	CAPSCREW, 1/2"NF x 1-1/2"
8	629349	2	PLATE, capscrew locking
9	629347	1	BEARING, roller, forward clutch, rear
10	629398	1	SPACER, rear bearing, forward clutch
11	629346	2	RING, snap, clutch shaft
12	639621	1	GEAR, driving, reverse clutch (37 teeth)
13	639521	1	GEAR, driving, forward clutch (33 teeth)
14	647996	2	BEARING, ball, front end
15	639759	2	NUT, clutch shaft
16	628784	2	GASKET, oil collector
17	639501	2	COLLECTOR, oil
	919840	4	PLUG, pipe, hex-hd., 1/4"NPT
18	035190	12	CAPSCREW, 1/2"NC x 1-1/2"
	904208	12	LOCKWASHER, 1/2"
19	------	-	TRANSMISSION PINION SHAFT


T-71863
CLUTCH AND SHAFT ASSEMBLY 642944

CLUTCH AND SHAFT ASSEMBLY 642944

USAGE: See page 147

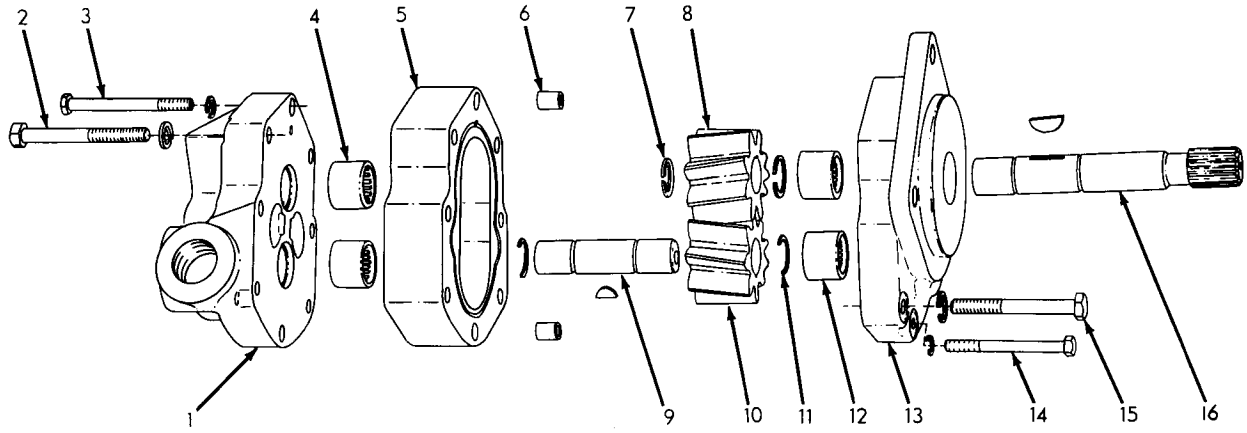
ITEM	PART NO.	QTY.	DESCRIPTION
			NOTE: All quantities indicated are for one (1) assembly only
1	642967	1	SHAFT ASSEMBLY (Includes items 2 thru 11)
2	------	1	SHAFT, only (Not serviced separately)
	907859	1	PLUG, pipe, hex-socket, 1/4"NPT
3	639588	2	RING, snap, carrier retaining
4	3037767	2	PLATE, valve
5	639598	6	PISTON, valve actuating
6	922745	6	PIN, retaining, piston stop pin
7	3037768	6	PIN, piston stop
8	642144	1	CARRIER ASSEMBLY (Includes items 9 thru 11)
9	639579	2	VALVE, flapper
10	642329	2	GUARD, flapper valve
11	639578	6	RIVET, flapper valve
12	3037676	1	O-RING, carrier
13	3037675	2	RING, carrier sealing
14	3037669	1	HOUSING, piston
15	3037674	2	RING, shaft sealing, center
16	639583	4	RETAINER, clutch hub (half only)
17	3037641	4	CAPSCREW, thin-hd., 5/16"NF x 1/2"
18	3037681	2	SPACER
19	3037597	4	BEARING, thrust
20	3037598	5	WASHER, thrust
21	639573	1	GEAR AND DRUM, low speed (28 teeth)
22	3037656	2	BEARING, roller, clutch gear (1-1/2" wide)
23	639547	2	BEARING, roller, clutch gear (1" wide)
24	639566	1	SPACER, low speed gear bearing
25	3037629	3	RING, shaft sealing, end
26	639565	1	SPACER, high speed gear bearing
27	639549	1	GEAR AND DRUM, high speed (41 teeth)
28	3037677	1	RING, snap, actuating piston housing
29	3037667	1	PISTON, clutch actuating

(Continued)

CLUTCH AND SHAFT ASSEMBLY 642944 (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
30	3037684	1	SEAL, actuating piston
31	643761	2	HUB, clutch
32	642061	16	PLATE, friction, outer
33	642147	16	PLATE, friction, inner
34	639556	16	SPRING, clutch hub
35	643762	2	RETAINER, clutch hub spring
36	3037678	2	RING, snap, spring retainer

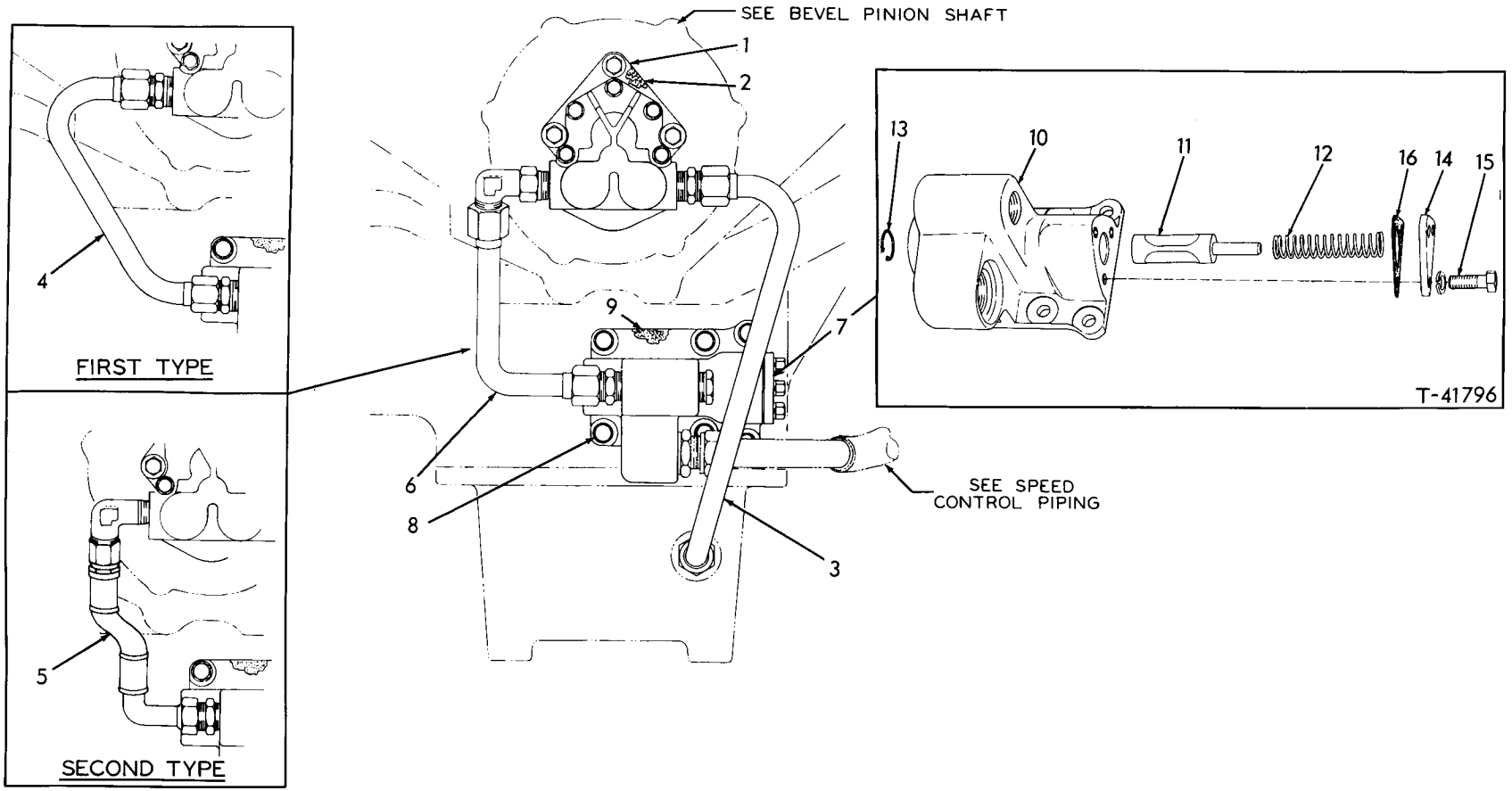
"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



OIL PUMP ASSEMBLY 630295

USAGE: See page 153

ITEM	PART NO.	QTY.	DESCRIPTION
1	641854	1	COVER ASSEMBLY (Includes item 4)
2	086546	4	CAPSCREW, 5/16"NC x 2-3/4"
	904205	4	LOCKWASHER, 5/16"
3	641564	1	CAPSCREW, 1/4"NC x 2-3/4"
	904204	1	LOCKWASHER, 1/4"
4	208253	2	BEARING, needle, rear end
5	3038935	1	PLATE, gear
6	3038937	2	PIN, dowel (hollow)
7	3038933	2	RING, snap, drive shaft
8	3038938	1	GEAR, drive shaft
9	641839	1	SHAFT, idler gear
	921396	1	KEY, woodruff, 1/8" x 3/8"
10	641841	1	GEAR, idler
11	3039013	2	RING, snap, idler shaft
12	208253	2	BEARING, needle, drive end
13	641855	1	BODY ASSEMBLY (Includes item 12)
14	611975	1	CAPSCREW, 1/4"NC x 2-1/2"
	904204	1	LOCKWASHER, 1/4"
15	033751	2	CAPSCREW, 5/16"NC x 2-1/2"
	904205	2	LOCKWASHER, 5/16"
16	641840	1	SHAFT, drive
	905122	1	KEY, woodruff, 1/8" x 3/4"



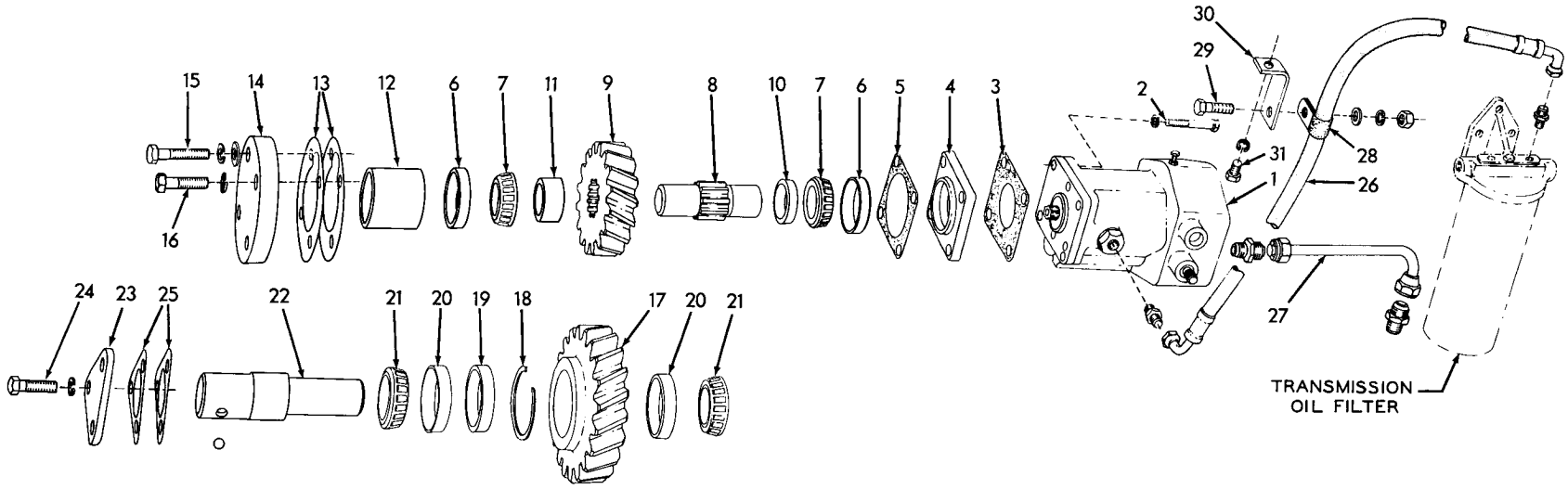
PUSH-START PUMP

T-39392

PUSH-START PUMP

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	630295	1	PUMP ASSY., oil (See page 151 for parts)
	920539	3	CAPSCREW, Nylok, 3/8"NC x 1"
	904206	3	LOCKWASHER, 3/8"
2	632065	1	GASKET, pump mounting
3	632312	1	TUBE ASSY., suction (Includes nuts)
	919342	2	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
4	------	1	TUBE ASSY., discharge (Includes nuts)(Used prior to loader #14614. Order TUBE ASSY 658600 and ELBOW 921840)
	919342	2	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
5	648793	1	HOSE, discharge (See HOSE PARTS)(Effective loaders #14614 thru #14937)
	919342	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
	919269	1	ELBOW, flare type, 3/4" tube, 3/4"NPT male
6	658600	1	TUBE ASSY., discharge (Includes nuts)(Effective loader #14938 and up)
	919342	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
	921840	1	ELBOW, flare type, swivel end, 3/4" tube, 3/4"NPT male
7	628521	1	VALVE ASSY., diverting (Consists of items 10 thru 16)
	920525	1	PLUG, pipe, hex-hd., 3/4"NPT
8	035439	6	CAPSCREW, 3/8"NC x 1"
	904206	6	LOCKWASHER, 3/8"
9	627347	1	GASKET, diverting valve
10	628065	1	HOUSING, diverting valve
11	629391	1	SPOOL, diverting valve
12	035337	1	SPRING, diverting valve
13	075354	1	RING, snap, diverting valve
14	629393	1	PLATE, cover, diverting valve
15	035439	3	CAPSCREW, 3/8"NC x 1"
	904206	3	LOCKWASHER, 3/8"
16	629392	1	GASKET, diverting valve cover plate



GROUND SPEED GOVERNOR

T-41802

GROUND SPEED GOVERNOR

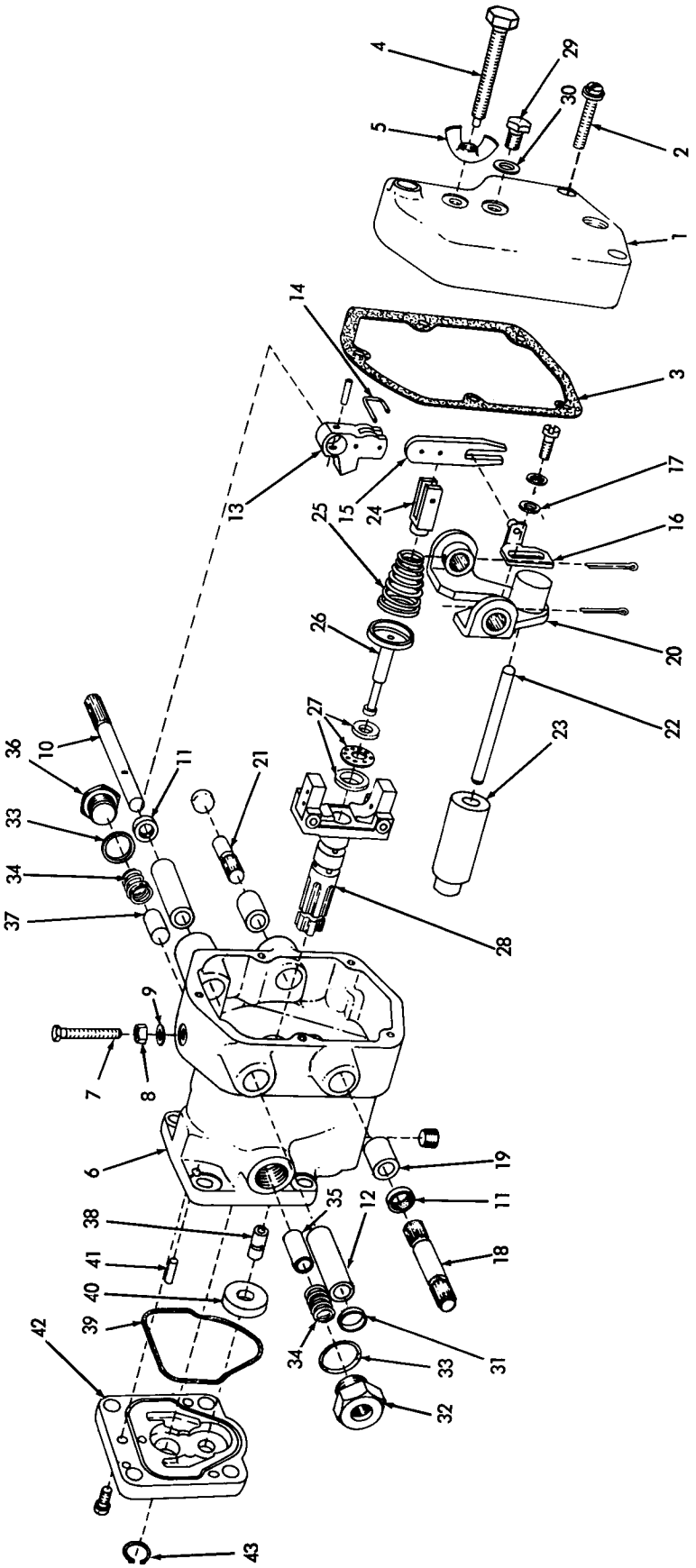
USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	638088	1	GOVERNOR ASSEMBLY (See page 159 for parts)
2	068320	4	CAPSCREW 5/16"NC x 2"
	904205	4	LOCKWASHER, 5/16"
3	624706	1	GASKET, governor mounting
4	628802	1	RETAINER, drive shaft bearing
5	628804	1	GASKET, bearing retainer
6	336916	2	CUP, upper shaft bearing
7	336917	2	CONE ASSEMBLY, upper shaft bearing
8	628803	1	SHAFT, upper gear
9	628798	1	GEAR, upper (16 teeth)
10	628777	1	SPACER, upper gear, rear
11	628778	1	SPACER, upper gear, front
12	628779	1	SPACER, upper shaft bearing
13	628780	2	SHIM, bearing adjustment (.005" thick. Use as required)
	628781	2	SHIM, bearing adjustment (.007" thick. Use as required)
	628782	5	SHIM, bearing adjustment (.010" thick. Use as required)
14	628786	1	COVER, upper shaft
15	040382	3	CAPSCREW, 3/8"NC x 1-3/8"
16	070960	1	CAPSCREW, 3/8"NC x 1-1/2"
	904206	4	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
17	628805	1	GEAR, lower (20 teeth)
18	068173	1	RING, snap, lower gear
19	628799	1	SPACER, lower gear bearing
20	336916	2	CUP, lower gear bearing
21	336917	2	CONE ASSEMBLY, lower gear bearing
22	628768	1	SHAFT, lower gear
	905359	1	BALL, steel, 5/16" diam.
23	628761	1	COVER, lower shaft
24	044249	3	CAPSCREW, 3/8"NC x 1-1/8"
	904206	3	LOCKWASHER, 3/8"
25	628760	2	SHIM, bearing adjustment (.005" thick. Use as required)
	628759	2	SHIM, bearing adjustment (.007" thick. Use as required)
	628758	2	SHIM, bearing adjustment (.010" thick. Use as required)

(Continued)

GROUND SPEED GOVERNOR (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
26	644665	1	HOSE, oil supply (Loaders prior to #14577)	See HOSE PARTS
	655612	1	HOSE, oil supply (Loaders #14577 and up)	
	919072	1	CONNECTOR, flare type, 3/8" tube, 1/8"NPT male	
	919062	1	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male	
27	632277	1	TUBE ASSEMBLY, oil return (Includes nuts)	
	919062	2	CONNECTOR, flare type, 3/8" tube, 1/4"NPT male	
28	094467	1	CLIP, hose supporting (3/4" diam., 13/32" bolt-hole)(Used prior to loader #14577)	
	621304	2	CLIP, hose supporting (3/4" diam., 17/32" bolt-hole)(1 less used on loader #14577 and up)	
29	035712	2	CAPSCREW, 1/2"NC x 2-1/4"	Loaders prior to #14577
	904208	2	LOCKWASHER, 1/2"	
	097413	1	BLOCK, spacing	
	070467	1	CAPSCREW, 1/2"NF x 1"	Loaders #14577 and up
	910244	1	WASHER, plain, SAE std., 1/2"	
	904208	1	LOCKWASHER, 1/2"	
	911043	1	NUT, 1/2"NF	
30	632436	1	ANGLE, hose supporting (Loaders #14577 and up)	
31	035718	1	CAPSCREW, 1/2"NC x 3/4"	
	904208	1	LOCKWASHER, 1/2"	


T-33411
GOVERNOR ASSEMBLY 638088

GOVERNOR ASSEMBLY 638088

USAGE: See page 155

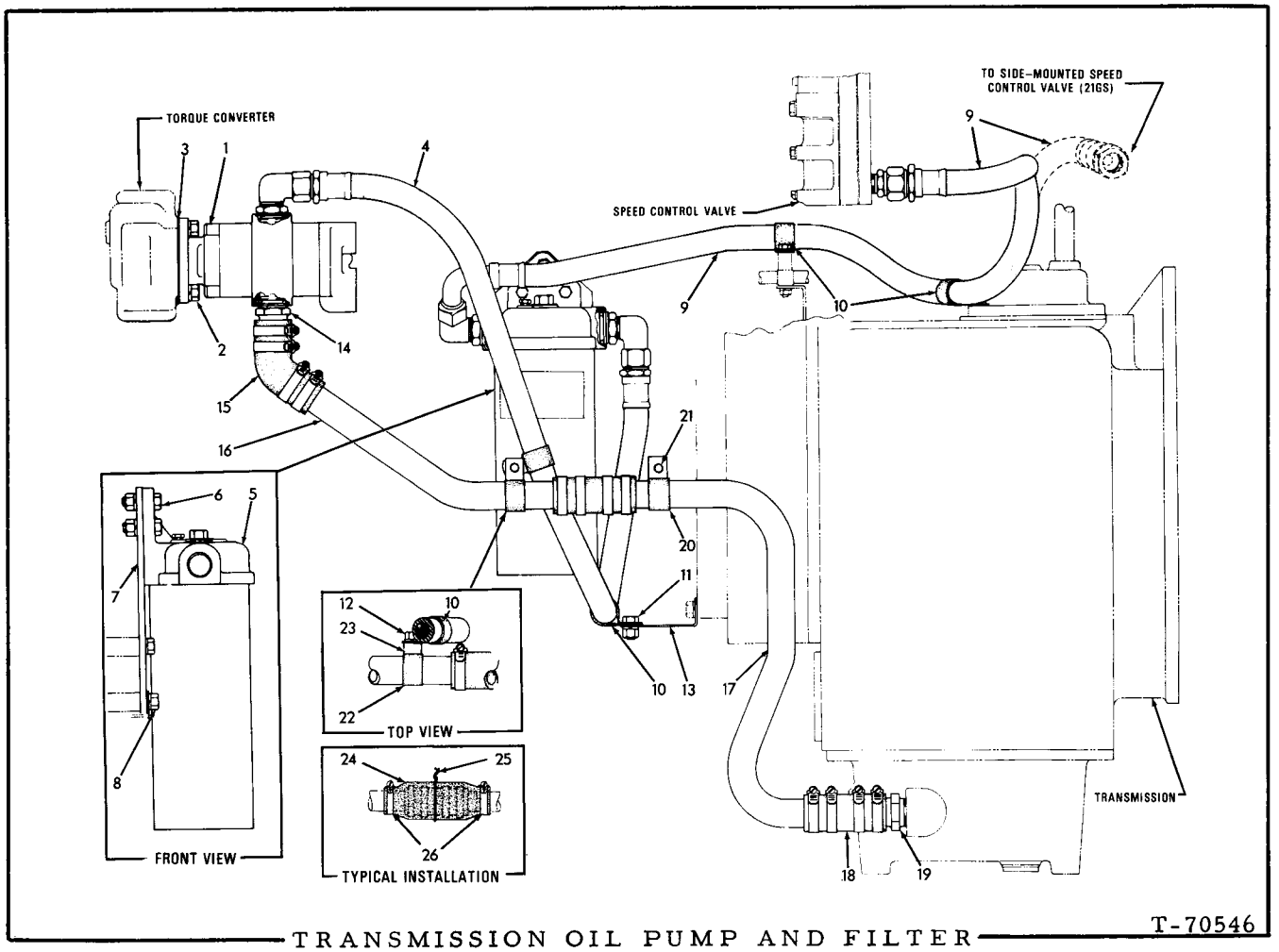
ITEM	PART NO.	QTY.	DESCRIPTION
1	628401	1	COVER
2	638236	3	SCREW ASSEMBLY (Includes lockwasher)
3	628399	1	GASKET, cover to case
4	629890	1	SCREW, low speed adjustment
5	628378	1	NUT, wing, 1/4"NF
6	629909	1	CASE ASSEMBLY (Includes items 12, 19 and 38)
	910231	1	PLUG, pipe, hex-socket, 1/8"NPT
7	628382	1	CAPSCREW, high speed adjustment
8	628381	1	NUT, hex, #10-32NF
9	631106	1	WASHER, high speed adjustment capscrew
10	629887	1	SHAFT, speed control
11	629898	2	SEAL, oil
12	629900	2	BEARING, plain, speed control shaft
13	629881	1	LEVER, speed control
	919180	1	PIN, spring, 1/8" x 5/8"
14	629879	1	PIN, speed control lever
15	629882	1	LEVER, floating
16	629895	1	BRACKET ASSEMBLY, speed droop adjustment (Includes pin)
	901781	1	SCREW, machine, fil-hd., #10-32NF x 1/2"
	909055	1	LOCKWASHER, int-tooth, #10
17	629901	1	WASHER, plain
18	629886	1	SHAFT, terminal
19	629899	2	BEARING, plain, terminal shaft
20	629894	1	LEVER, terminal shaft
	900801	2	PIN, cotter, 3/32" x 3/4"
21	629885	1	SHAFT, stub, terminal shaft lever
22	629907	1	PIN, power piston
23	629884	1	PISTON, power
24	629897	1	FORK, ballhead spring
25	638232	1	SPRING, ballhead
26	629888	1	PLUNGER, ballhead
27	628384	1	BEARING, thrust, ballhead plunger
28	634427	1	BALLHEAD ASSEMBLY (Includes weights. Serviced only as a balanced unit)

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
29	628403	1	CAPSCREW, vent
30	628402	1	WASHER, vent capscrew
31	629908	2	PLUG, cup, governor case
32	629892	1	PLUG, oil inlet
33	629902	2	WASHER, oil inlet plug
34	629904	2	SPRING, oil inlet sleeve
35	629891	1	SLEEVE, oil inlet
36	629893	1	PLUG, governor case
37	629889	1	PLUG, oil passage
38	------	1	STUD, locating, base spacer
39	628392	1	RING, sealing, governor base
40	628391	1	SPACER, governor base
41	629906	2	PIN, dowel (Standard size)
	630578	2	PIN, dowel (Oversize)
42	628388	1	BASE
	901223	3	SCREW, machine, fil-hd., #12-24NC x 1/2"
43	628389	1	RING, snap, ballhead

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

MEMO



TRANSMISSION OIL PUMP AND FILTER

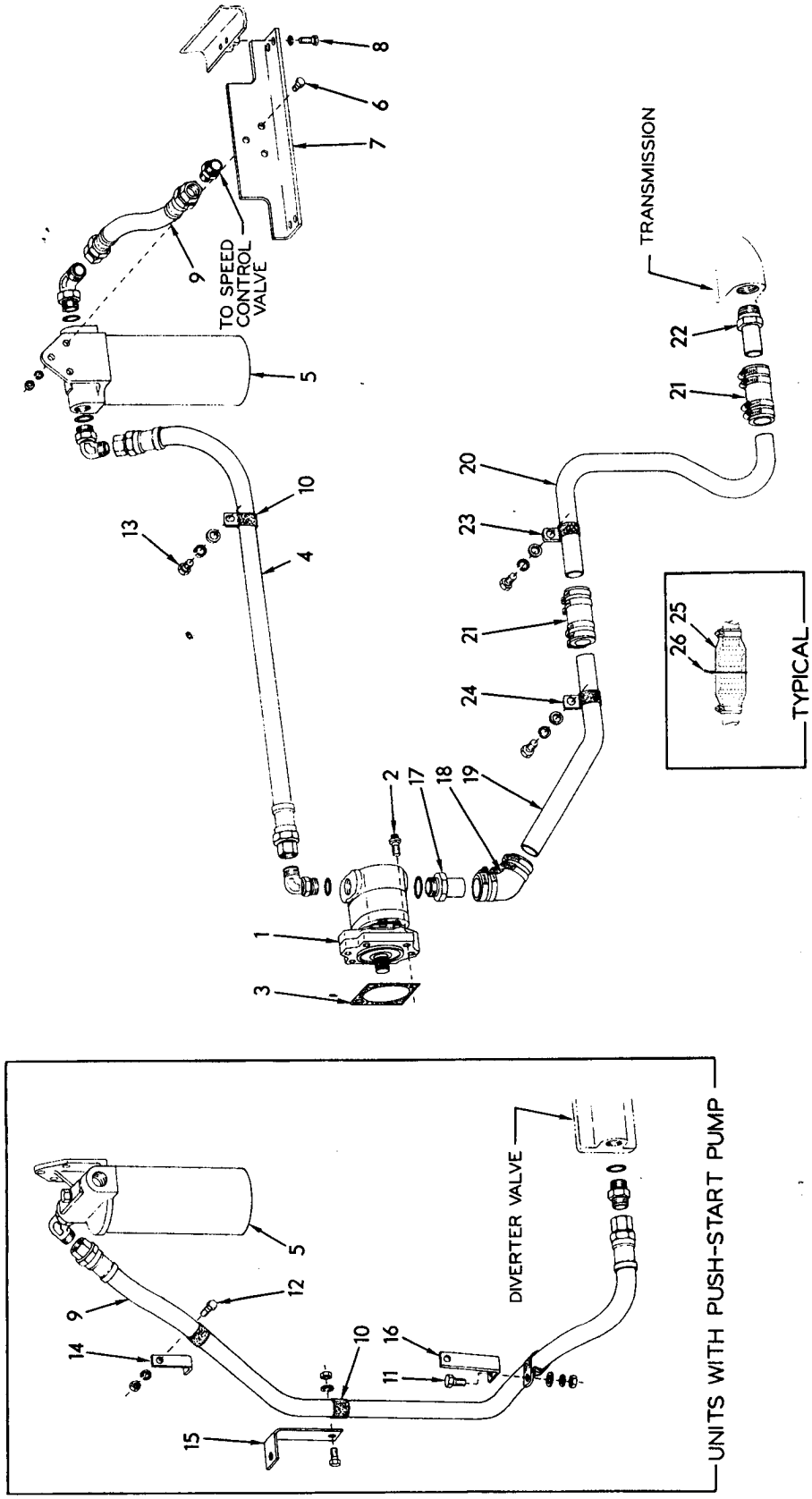
USAGE: Loaders prior to serial No. 14577.

ITEM	PART NO.	QTY.	DESCRIPTION
1	642227	1	PUMP ASSEMBLY, oil (See page 168 for parts)
2	639637	4	STUD, pump retaining
	904208	4	LOCKWASHER, 1/2"
	911043	4	NUT, 1/2"NF
3	634271	1	GASKET, pump to torque converter
4	644931	1	HOSE, pump to filter (See HOSE PARTS)
	921227	2	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16"NF (Includes washer, nut and O-RING 921214)
5	637865	1	FILTER ASSEMBLY, oil (See page 170 for parts)(Used prior to loader #14232. Order FILTER ASSEMBLY 659519)
	650397	1	FILTER ASSEMBLY, oil (See page 170 for parts)(Loaders #14232 and up. Order FILTER ASSEMBLY 659519)
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT (Not used when Ground Speed Governor is installed)
6	035073	3	CAPSCREW, 1/2"NF x 1-3/4"
	904208	3	LOCKWASHER, 1/2"
	911043	3	NUT, 1/2"NF

(Continued)

TRANSMISSION OIL PUMP AND FILTER (First type)(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	639863	1	PLATE, filter mounting
8	035061	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
9	648653	1	HOSE, filter to speed control valve (See HOSE PARTS)(Model 21GS. Not used when special PUSH-START PUMP is installed)
	642515	1	HOSE, filter to speed control valve (See HOSE PARTS)(Model 21G. Not used when special PUSH-START PUMP is installed)
	921227	1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16"NF (Includes washer, nut and O-RING 921214)
	919246	1	CONNECTOR, flare type, 1" tube, 3/4"NPT male
	644475	1	HOSE, filter to diverter valve (See HOSE PARTS)(Used only when special PUSH-START PUMP is installed)
	921227	1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16"NF (Includes washer, nut and O-RING 921214)
	921215	1	ELBOW, adjustable, 45°, flare type, 1" tube, 1-5/16"NF (Includes washer, nut and O-RING 921214)
10	644457	4	CLIP, hose supporting (1-5/16" diam., 17/32" bolt-hole)(1 less used with HOSE 644475)
11	070467	1	CAPSCREW, 1/2"NF x 1"
12	035073	1	CAPSCREW, 1/2"NF x 1-3/4"
	904208	2	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
13	632436	1	BRACKET, hose supporting
14	632161	1	ADAPTER, suction line, upper
	921214	1	O-RING, adapter sealing
15	631790	1	BOOT, suction line
	921912	4	CLAMP, hose, 1-1/16" to 2" diam.
16	639545	1	TUBE, suction line, front section
17	642937	1	TUBE, suction line, rear section
18	631788	2	HOSE, suction line
	921912	8	CLAMP, hose, 1-1/16" to 2" diam.
19	631791	1	ADAPTER, suction line, lower
20	632547	1	CLIP, supporting, rear tube
21	070469	1	CAPSCREW, 1/2"NF x 1-1/4"
	904208	1	LOCKWASHER, 1/2"
	910244	1	WASHER, plain, SAE std., 1/2"
22	641112	1	CLIP, supporting, front tube
23	064384	1	BOSS, clip spacing
24	629839	3	SHEET, asbestos, hose insulating (9" x 20") } Model 21GS only
25	023756	3	WIRE, retaining, 1/16" x 26" } Model 21GS only
26	921912	6	CLAMP, hose, 1-1/16" to 2" diam. } Model 21GS only


T-75048
TRANSMISSION OIL PUMP AND FILTER (Second type)
TO SPEED CONTROL VALVE
TRANSMISSION
TYPICAL
UNITS WITH PUSH-START PUMP
DIVERTER VALVE

TRANSMISSION OIL PUMP AND FILTER

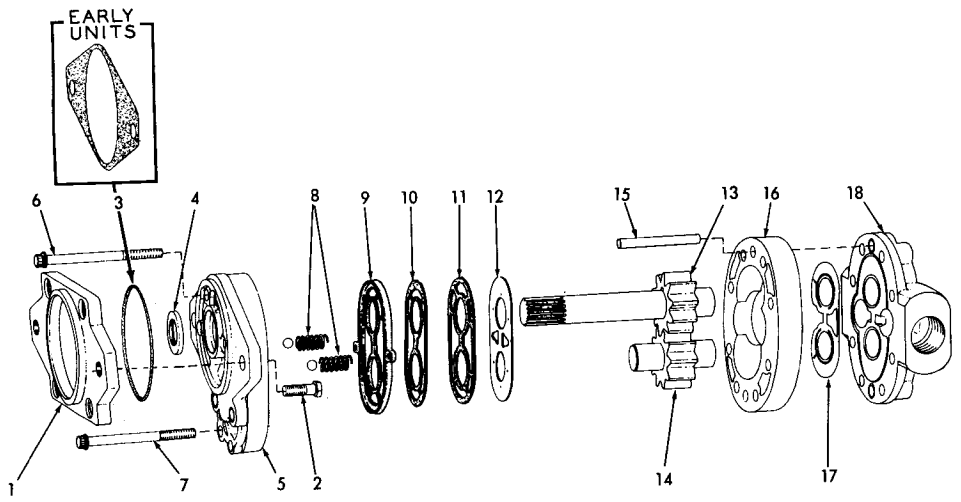
USAGE: Loaders serial No. 14577 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	656226	1	PUMP ASSEMBLY, oil (See page 167 for parts)
2	923980	4	CAPSCREW, 12-point, Nylok, 1/2"NC x 1"
3	634271	1	GASKET, adapter to torque converter
4	655615	1	HOSE, pump to filter (See HOSE PARTS)
	921227	2	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16" straight thread (Includes washer, nut and O-RING 921214)
5	650397	1	FILTER ASSEMBLY, oil (Used prior to loader #14856. Order FILTER ASSEMBLY 659519) } See page 170 for parts
	659519	1	FILTER ASSEMBLY, oil (Loaders #14856 and up) } See page 170 for parts
	919840	1	PLUG, pipe, hex-hd., 1/4"NPT (Not used when GROUND SPEED GOVERNOR is installed)
6	070469	3	CAPSCREW, 1/2"NF x 1-1/4"
	904208	3	LOCKWASHER, 1/2"
	911043	3	NUT, 1/2"NF
7	655481	1	ANGLE, filter mounting
8	035061	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
9	655614	1	HOSE, filter to speed control valve (See HOSE PARTS)(Not used when special PUSH-START PUMP is installed)
	921227	1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16" straight thread (Includes washer, nut and O-RING 921214)
	919246	1	CONNECTOR, flare type, 1" tube, 3/4"NPT male
	656476	1	HOSE, filter to diverter valve (See HOSE PARTS)(Used only when special PUSH-START PUMP is installed)
	921227	1	ELBOW, adjustable, 90°, flare type, 1" tube, 1-5/16" straight thread (Includes washer, nut and O-RING 921214)
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight male thread (Includes O-RING 921214)
10	644457	1	CLIP, hose supporting (3 additional required on units with PUSH-START PUMP)
11	036032	1	CAPSCREW, 3/8"NF x 3/4" } For units with PUSH-START PUMP only
	911115	1	WASHER, plain, SAE std., 3/8" } For units with PUSH-START PUMP only
	904206	1	LOCKWASHER, 3/8" } For units with PUSH-START PUMP only
	911041	1	NUT, 3/8"NF } For units with PUSH-START PUMP only
12	067480	2	CAPSCREW, 1/2"NF x 3/4" } For units with PUSH-START PUMP only
	904208	2	LOCKWASHER, 1/2" } For units with PUSH-START PUMP only
	911043	2	NUT, 1/2"NF } For units with PUSH-START PUMP only
13	035718	1	CAPSCREW, 1/2"NC x 3/4"
	904208	1	LOCKWASHER, 1/2"
	910244	1	WASHER, plain, SAE std., 1/2"
14	642533	1	ANGLE, hose supporting, upper } For units with PUSH-START PUMP only
15	656494	1	ANGLE, hose supporting, center } For units with PUSH-START PUMP only
16	631107	1	ANGLE, hose supporting, lower } For units with PUSH-START PUMP only

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
17	656233	1	ADAPTER, suction line, upper (Includes O-RING 921235)	
18	631790	1	BOOT, suction line	
	921912	4	CLAMP, hose, 1-1/16" to 2" diam.	
19	656232	1	TUBE, suction line, front section	
20	642937	1	TUBE, suction line, rear section	
21	631788	2	HOSE, suction line	
	921912	8	CLAMP, hose, 1-1/16" to 2" diam.	
22	631791	1	ADAPTER, suction line, lower	
23	632547	1	CLIP, rear suction tube	
	070469	1	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	1	LOCKWASHER, 1/2"	
	910244	1	WASHER, plain, SAE std., 1/2"	
24	641112	1	CLIP, front suction tube	
	070469	1	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	1	LOCKWASHER, 1/2"	
	910244	1	WASHER, plain, SAE std., 1/2"	
25	629839	3	SHEET, asbestos, hose insulating (9" x 20")	} Model 21GS only
26	023756	3	WIRE, retaining, 1/16" x 26"	
	921912	6	CLAMP, hose, 1-1/16" to 2" diam.	

NOTE: See PAINTING AND MARKING for transfer

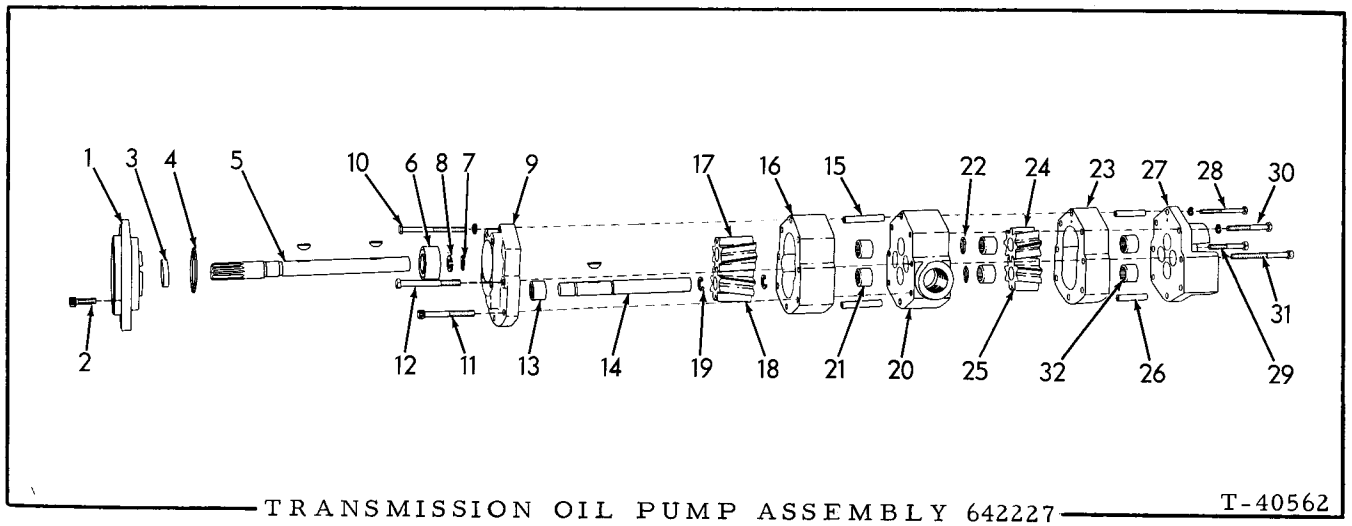


T-72801

TRANSMISSION OIL PUMP ASSEMBLY 656226

USAGE: See page 165

ITEM	PART NO.	QTY.	DESCRIPTION
1	651536	1	ADAPTER (Loaders prior to #14745)
	656694	1	ADAPTER (Loaders #14745 and up)
2	035061	2	CAPSCREW, 1/2"NC x 1-1/4"
3	653923	1	GASKET, adapter (Loaders prior to #14745)
	925310	1	O-RING, adapter (Loaders #14745 and up)
4	653935	1	SEAL, oil
5	653921	1	PLATE ASSEMBLY, front (Includes bushings)
6	924787	4	SCREW, 12-pt-hd., 3/8"NC x 3-3/4"
7	924790	4	SCREW, 12-pt-hd., 3/8"NC 3-1/2"
8	653916	2	SPRING, check valve
	921085	2	BALL, steel, 13/32" diam.
9	653917	1	SEAL, front diaphragm
10	653918	1	GASKET, diaphragm (thin)
11	653919	1	GASKET, diaphragm (thick)
12	653920	1	DIAPHRAGM, sealing
13	653926	1	GEAR ASSEMBLY, drive (Includes shaft)
14	656777	1	GEAR ASSEMBLY, driven (Includes shaft)
15	653928	2	PIN, dowel
16	653924	1	BODY, center
17	653925	1	PLATE
18	653922	1	PLATE ASSEMBLY, back (Includes bushings)



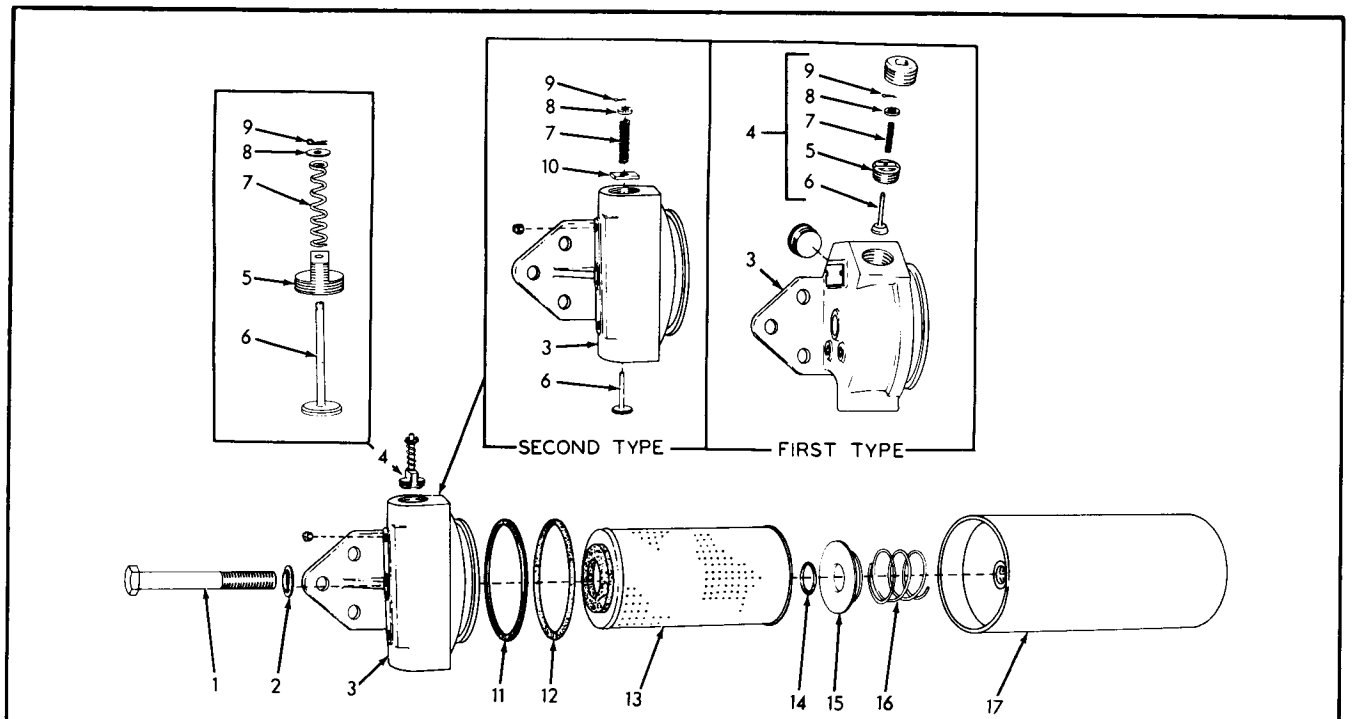
TRANSMISSION OIL PUMP ASSEMBLY 642227 T-40562

USAGE: See page 162

ITEM	PART NO.	QTY.	DESCRIPTION
1	639540	1	PLATE ASSEMBLY, adapting (Includes item 3)
2	912264	4	CAPSCREW, hex-socket-hd., 5/16"NC x 1"
3	643560	1	SEAL, adapting plate
4	3039053	1	O-RING, adapting plate
5	642320	1	SHAFT, driving
	905122	2	KEY, woodruff, 1/8" x 3/4"
6	3038936	1	BEARING, ball, drive shaft
7	3038940	1	WASHER, spacing
8	3038933	1	RING, bearing retaining
9	639530	1	BODY ASSEMBLY (Includes item 13)
10	642327	2	CAPSCREW, 1/4"NC x 3-1/2"
	904204	2	LOCKWASHER, 1/4"
11	920979	2	CAPSCREW, hex-socket,-hd., 5/16"NC x 2-3/4"
12	642328	4	CAPSCREW, 5/16"NC x 3-1/4"
13	208253	1	BEARING, needle, pump body
14	642319	1	SHAFT, idler
	905122	1	KEY, woodruff, 1/8" x 3/4"
15	642323	2	PIN, dowel (2-3/8" long)
16	642322	1	PLATE, pump gears, front
17	642321	1	GEAR, drive shaft (2" wide)
18	642318	1	GEAR, idler shaft (2" wide)
19	3039013	2	RING, retaining, idler shaft gear
20	639447	1	PLATE ASSEMBLY, center (Includes items 21 and 22)

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	208253	4	BEARING, needle, center plate
22	052662	2	SEAL, center plate
23	640739	1	PLATE, pump gears, rear
24	641537	1	GEAR, drive shaft (1-1/2" wide)
25	641538	1	GEAR, idler shaft (1-1/2" wide)
26	640774	2	PIN, dowel (1-3/4" long)
27	638613	1	COVER ASSEMBLY, rear (Includes item 32)
28	641564	2	CAPSCREW, 1/4"NC x 2-3/4"
	904204	2	LOCKWASHER, 1/4"
29	921160	1	CAPSCREW, 5/16"NC x 2-1/4"
30	033751	3	CAPSCREW, 5/16"NC x 2-1/2"
	904205	3	LOCKWASHER, 5/16"
31	642309	2	CAPSCREW, hex-socket-hd., 5/16"NC x 3-1/2"
32	208253	2	BEARING, needle, rear cover



TRANSMISSION FILTER PARTS

* 637865 FILTER ASSEMBLY (See page 162)
** 650397 FILTER ASSEMBLY (See pages 162 and 165)
Δ 659519 FILTER ASSEMBLY (See page 165)

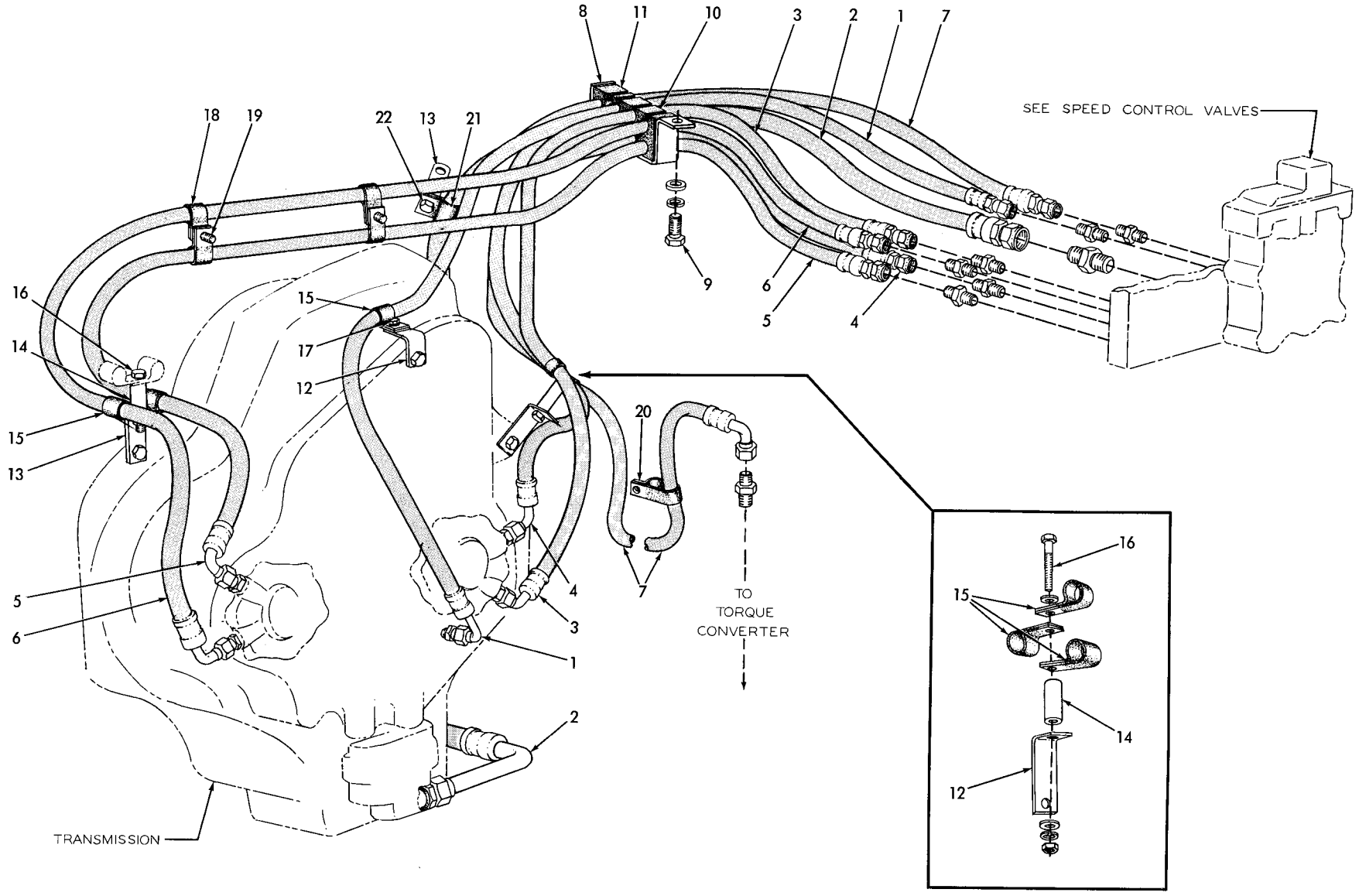
ITEM	PART NO.	QUANTITY *	**	Δ	DESCRIPTION
1	604930	1	-	-	CAPSCREW, tank retaining (3/4" NF x 5")
	923438	-	1	1	CAPSCREW, tank retaining (3/4" NF x 5-1/2")
2	641029	1	1	1	WASHER, tank retaining capscrew
3	640744	1	-	-	HEAD
	901666	2	-	-	PLUG, pipe, ctsk-hd., 1" NPT
	650427	-	1	-	HEAD ASSEMBLY (Includes items 6 thru 10 and PLUGS indented below)
	659514	-	-	1	HEAD
	901652	-	2	2	PLUG, pipe, 1/4" NPT
4	633995	2	-	-	VALVE ASSEMBLY, by-pass (Consists of items 5 thru 9)
	661534	-	-	1	VALVE ASSEMBLY, by-pass (Consists of items 5 thru 9)
5	------	2	-	1	HOUSING, by-pass valve (Not serviced separately)
6	------	2	-	1	VALVE, by-pass (Not serviced separately)
	650853	-	1	-	VALVE, by-pass
7	631870	2	-	-	SPRING, by-pass valve
	650430	-	1	-	SPRING, by-pass valve
	661268	-	-	1	SPRING, by-pass valve

(Continued)

TRANSMISSION FILTER PARTS (Continued)

ITEM	PART NO.	QUANTITY *	**	Δ	DESCRIPTION
8	632060	2	1	1	WASHER, by-pass valve spring
9	632061	2	-	-	RING, snap, by-pass valve (Early units)
	900970	2	1	1	PIN, cotter, 1/16" x 1/2" (Late units)
10	650431	-	1	-	SPANNER, by-pass valve spring
11	646532	1	1	1	RING, back-up
12	923836	1	1	1	O-RING, filter head
13	640780	1	1	1	ELEMENT KIT (Includes items 2, 11 and 12)
14	923649	1	1	1	O-RING, element seating plate
15	641031	1	1	1	PLATE, element seating
16	641027	1	1	1	SPRING, element seating plate
17	650428	1	1	1	TANK

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



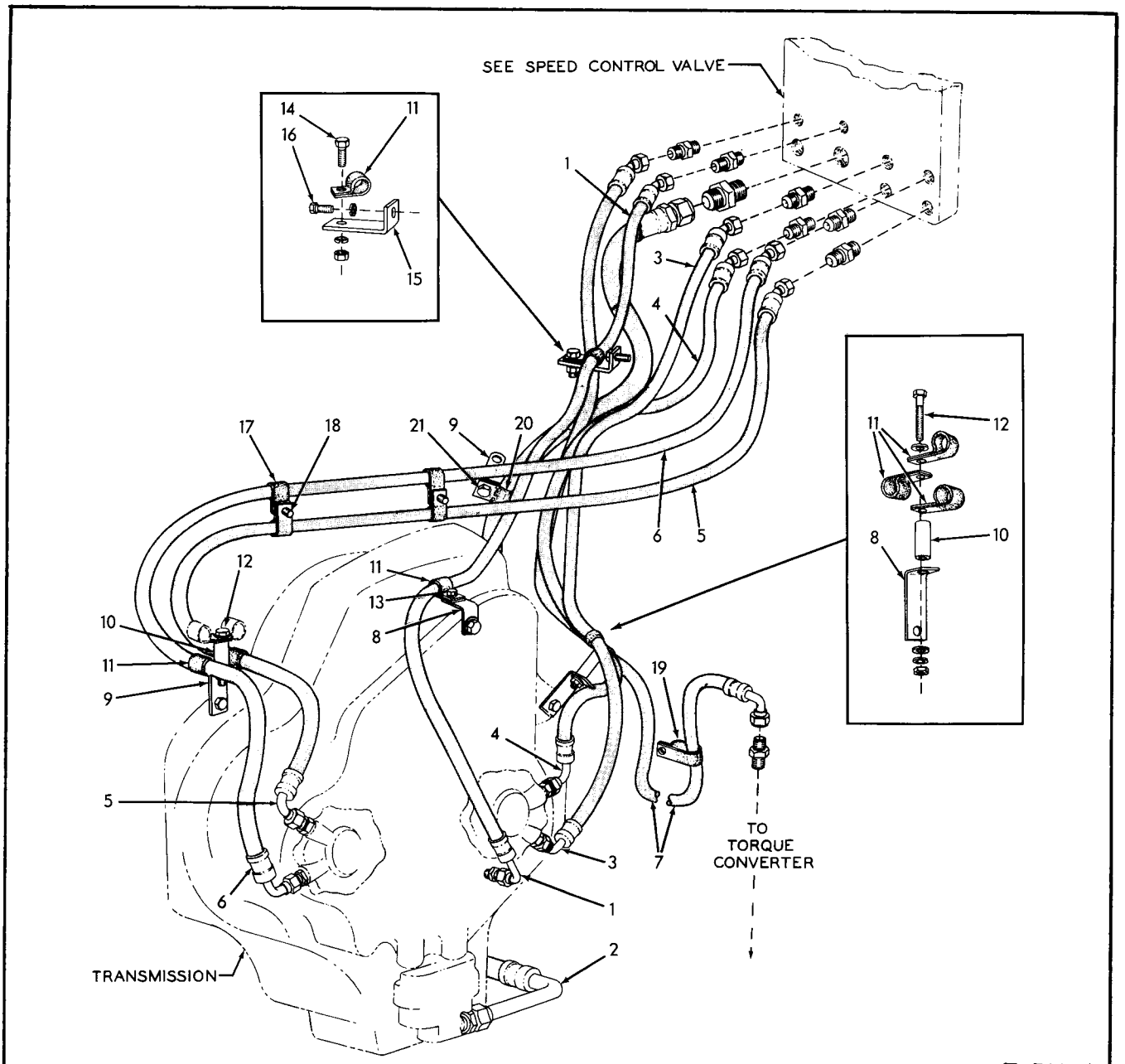
SPEED CONTROL PIPING (First type)

T-70547

SPEED CONTROL PIPING

USAGE: Model 21G loaders prior to serial No. 14577

ITEM	PART NO.	QTY.	DESCRIPTION
1	642494	1	HOSE, oil return (See HOSE PARTS)
	919127	1	CONNECTOR, flare type, 3/8" tube, 1/2"NPT male
	919172	1	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
2	644474	1	HOSE, diverter valve to valve mounting plate (See HOSE PARTS)(Used with special PUSH-START PUMP only)
	919246	1	CONNECTOR, flare type, 1" tube, 3/4"NPT male
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread (Includes O-RING 921214)
			NOTE: See page 162 for hose used on units without PUSH-START PUMP
3	644506	1	HOSE, forward clutch control (1st gear)(See HOSE PARTS)
	919172	2	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
4	642481	1	HOSE, forward clutch control (2nd gear)(See HOSE PARTS)
	919172	2	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
5	642485	1	HOSE, reverse clutch control (1st gear)(See HOSE PARTS)
	919172	2	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
6	642487	1	HOSE, reverse clutch control (2nd gear)(See HOSE PARTS)
	919172	2	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
7	642517	1	HOSE, engine clutch supply (See HOSE PARTS)
	919172	2	CONNECTOR, flare type, 3/8" tube, 3/8"NPT male
8	639756	1	CLAMP, hose supporting
9	036034	1	CAPSCREW, 3/8"NF x 1"
	904206	1	LOCKWASHER, 3/8"
	044973	1	WASHER, plain
10	639620	1	BLOCK, hose supporting, front (rubber)
11	651774	1	BLOCK, hose supporting, rear (rubber)
12	628243	2	ANGLE, hose supporting
13	633496	2	ANGLE, hose supporting (1 less used on loaders not equipped with special PUSH-START PUMP)
14	094756	2	BLOCK, clip spacing (1 less used on loaders equipped with special PUSH-START PUMP)
15	094467	6	CLIP, hose supporting (3/4" diam., 13/32" bolt-hole)
16	620253	2	CAPSCREW, 3/8"NF x 2-3/4" (1 less used with PUSH-START PUMP)
17	036032	1	CAPSCREW, 3/8"NF x 3/4" (1 additional used with PUSH-START PUMP)
	911115	3	WASHER, plain, SAE std., 3/8"
	904206	3	LOCKWASHER, 3/8"
	911041	3	NUT, 3/8"NF
18	621304	6	CLIP, hose supporting (3/4" diam., 17/32" bolt-hole)
19	035718	2	CAPSCREW, 1/2"NC x 3/4"
	904208	2	LOCKWASHER, 1/2"
	910244	2	WASHER, plain, SAE std., 1/2"
20	633624	1	CLIP, hose supporting (For two 3/4" diam. hoses)
21	644457	1	CLIP, hose supporting (1-5/16" diam., 17/32" bolt-hole) — For units with PUSH-START PUMP only
22	036032	1	CAPSCREW, 3/8"NF x 3/4" — For units with PUSH-START PUMP only
	911115	1	WASHER, plain, SAE std., 3/8" — For units with PUSH-START PUMP only
	904206	1	LOCKWASHER, 3/8" — For units with PUSH-START PUMP only
	911041	1	NUT, 3/8"NF — For units with PUSH-START PUMP only



SPEED CONTROL PIPING

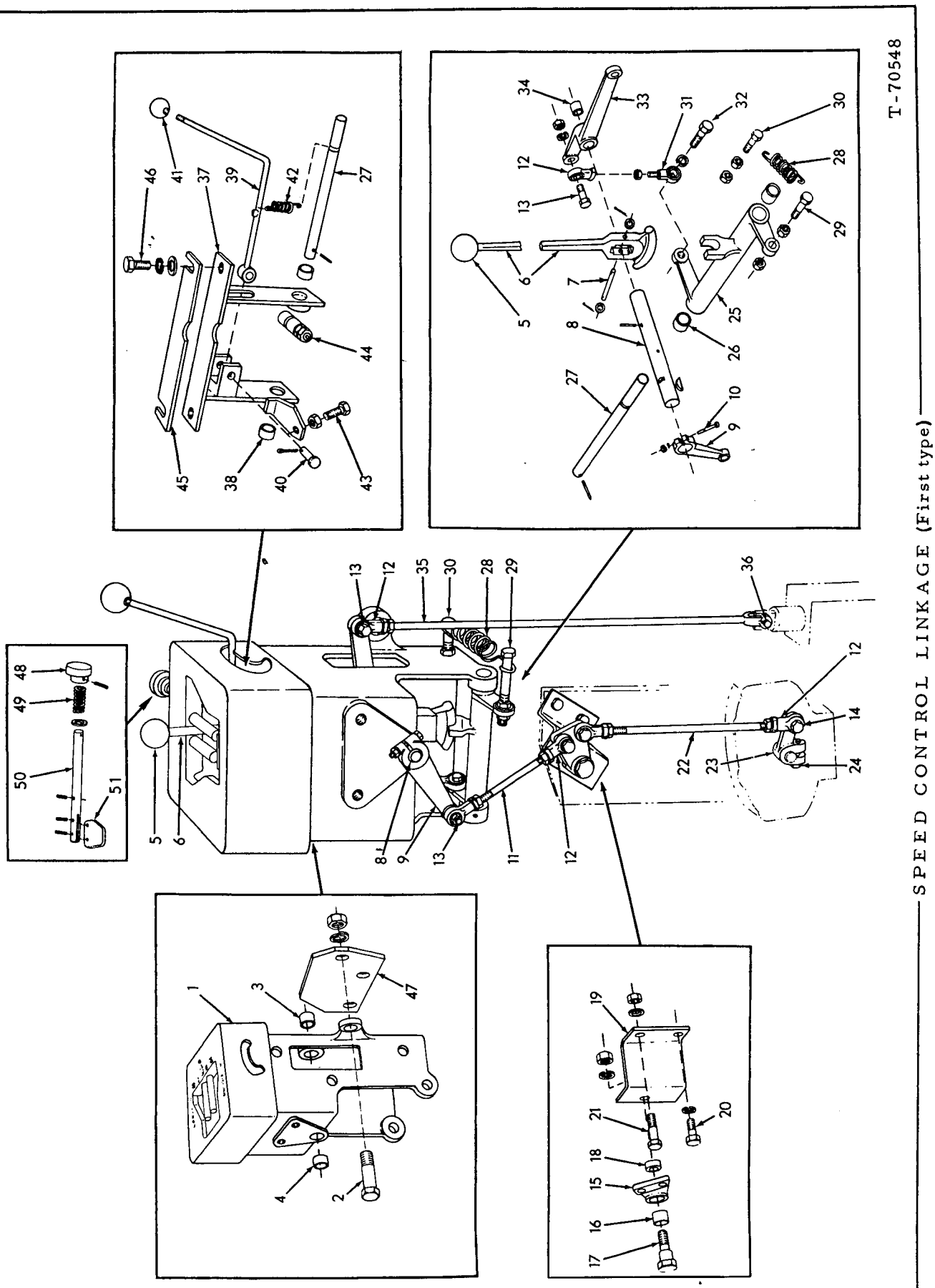
USAGE: All Model 21GS loaders; also 21G loaders serial No. 14577 and up.

ITEM	PART NO.	QTY.	DESCRIPTION
1	648637	1	HOSE, oil return (See HOSE PARTS)(21GS loaders prior to #14577)
	919063	1	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
	919128	1	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
	654725	1	HOSE, oil return (See HOSE PARTS)(Model 21G; also 21GS loaders #14577 and up)
	919472	1	CONNECTOR, flare type, 5/8" tube, 1/2"NPT male
	921326	1	CONNECTOR, 5/8" tube, 7/8"NF thread (Includes O-RING 921205)

(Continued)

SPEED CONTROL PIPING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
2	651962	1	HOSE, diverter valve to valve mounting plate (See HOSE PARTS) (Used with special PUSH-START PUMP only)
	919246	1	CONNECTOR, flare type, 1" tube, 3/4"NPT male
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread (Includes O-RING 921214)
			NOTE: See page 165 for hose used on units without PUSH-START PUMP.
3	648631	1	HOSE, forward clutch control (1st gear)(See HOSE PARTS)
	919063	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
4	648645	1	HOSE, forward clutch control (2nd gear)(See HOSE PARTS)
	919063	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
5	648632	1	HOSE, reverse clutch control (1st gear)(See HOSE PARTS)
	919063	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
6	648635	1	HOSE, reverse clutch control (2nd gear)(See HOSE PARTS)
	919063	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
7	648634	1	HOSE, engine clutch supply (See HOSE PARTS)
	919063	2	CONNECTOR, flare type, 1/2" tube, 3/8"NPT male
8	628243	2	ANGLE, hose supporting
9	633496	2	ANGLE, hose supporting (1 less used on tractors not equipped with special PUSH-START PUMP)
10	094756	2	BLOCK, clip spacing (Model 21GS loaders prior to #14577 1 less used on units with special PUSH-START PUMP)
11	094467	7	CLIP, hose supporting (3/4" diam., 13/32" bolt-hole)
12	620253	2	CAPSCREW, 3/8"NF x 2-3/4" (Model 21GS loaders prior to #14577)
	012992	2	CAPSCREW, 3/8"NF x 1-1/4" (Model 21G; also 21GS tractors #14577 and up)
13	036032	1	CAPSCREW, 3/8"NF x 3/4"
	911115	4	WASHER, plain, SAE std., 3/8"
	904206	3	LOCKWASHER, 3/8"
	911041	3	NUT, 3/8"NF
14	903775	1	CAPSCREW, 3/8"NC x 7/8"
	904206	1	LOCKWASHER, 3/8"
	911026	1	NUT, 3/8"NC
15	638315	1	ANGLE, hose supporting
16	035220	1	CAPSCREW, 1/2"NC x 1-1/8"
	904208	1	LOCKWASHER, 1/2"
17	621304	7	CLIP, hose supporting (3/4" diam., 17/32" bolt-hole)
18	035220	2	CAPSCREW, 1/2"NC x 1-1/8"
	904208	2	LOCKWASHER, 1/2"
	910244	2	WASHER, plain, SAE std., 1/2"
19	633624	1	CLIP, hose supporting (For two 3/4" diam. hoses)
20	644457	1	CLIP, hose supporting (1-5/16" diam., 17/32" bolt-hole)
21	036032	1	CAPSCREW, 3/8"NF x 3/4"
	911115	1	WASHER, plain, SAE std., 3/8"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF


T-70548
SPEED CONTROL LINKAGE (First type)

SPEED CONTROL LINKAGE

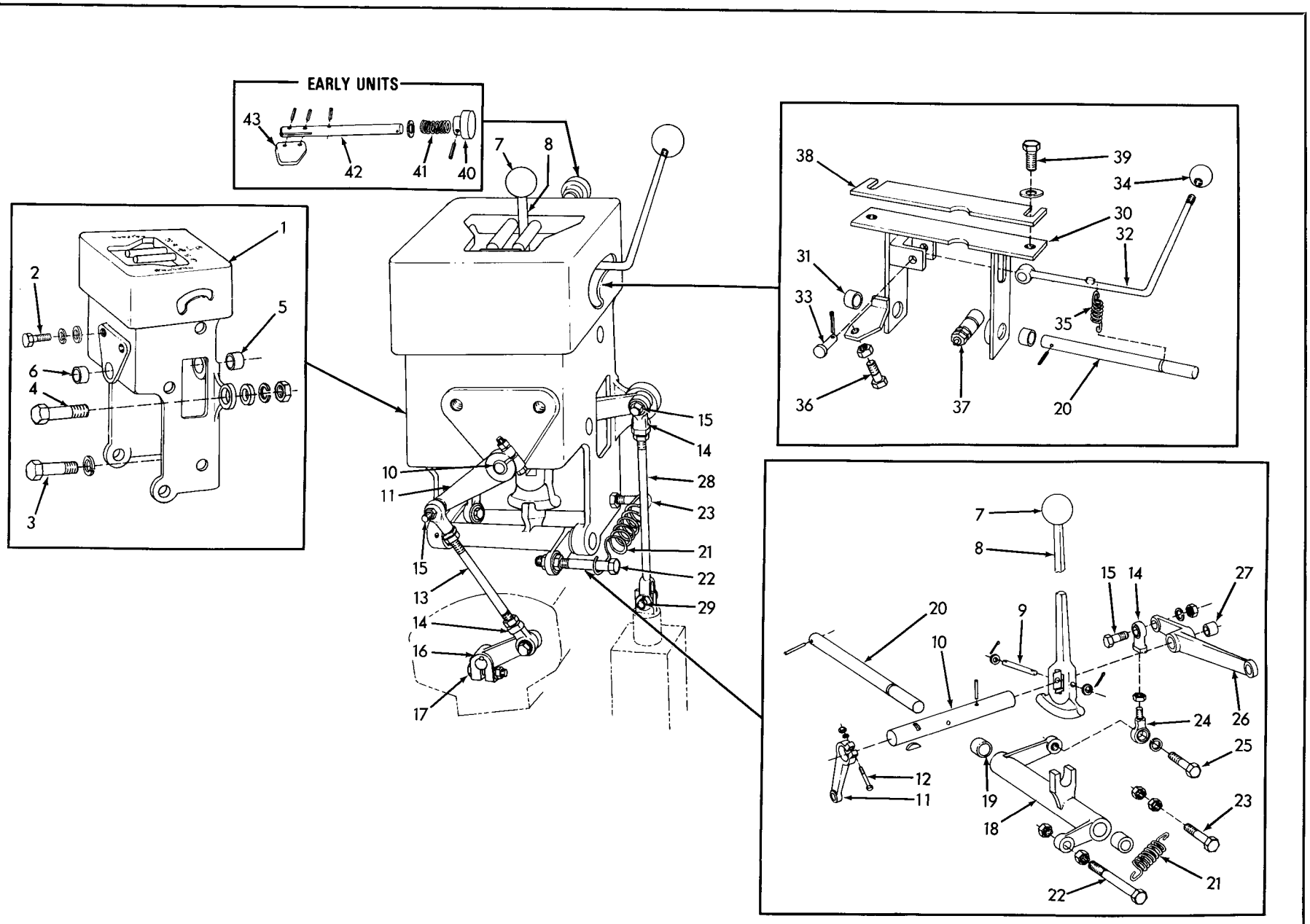
USAGE: Model 21G Loaders only prior to serial No. 14577

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	GUIDE ASSY., control (Includes items 3 and 4)(Original equipment. Order GUIDE ASSEMBLY 655777)
		1	GUIDE ASSY., control (Includes items 3 and 4)(Service replacement)
2	035068	3	CAPSCREW, 1/2"NF x 2"
	904208	3	LOCKWASHER, 1/2" } Also attach arm rest
	911043	3	NUT, 1/2"NF
3	639785	1	BUSHING, control guide, front
4	628157	1	BUSHING, control guide, rear
5	629709	1	KNOB, speed shift lever
6	639766	1	LEVER, speed shift
7	656155	1	PIN, lever pivot
	911115	2	WASHER, plain, SAE std., 3/8"
	900806	2	PIN, cotter, 1/8" x 1"
8	656159	1	SHAFT, speed shift lever
	915989	1	PIN, roll, 3/16" x 1-3/8"
9	639775	1	LEVER, control valve, upper
	905123	1	KEY, #9 woodruff, 3/16" x 3/4"
10	046419	1	CAPSCREW, 3/8"NF x 2"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
11	639778	1	ROD, control valve, upper
	911048	2	NUT, jam, 3/8"NF
12	617932	6	END, rod (female)
13	036039	5	CAPSCREW, 3/8"NF x 1-3/8"
14	044249	1	CAPSCREW, 3/8"NC x 1-1/8"
	904206	6	LOCKWASHER, 3/8"
	911041	5	NUT, 3/8"NF
15	641984	1	LEVER ASSEMBLY, control valve, intermediate (Includes item 16)
16	639785	1	BUSHING, intermediate lever
17	640367	1	CAPSCREW, pivot, intermediate lever
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
18	091553	1	SPACER, intermediate lever
19	641975	1	BRACKET, intermediate lever
20	035221	1	CAPSCREW, 1/2"NC x 1"
21	035068	1	CAPSCREW, 1/2"NF x 2"
	904208	2	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
22	641968	1	ROD, control valve, lower
	911048	2	NUT, jam, 3/8"NF
23	642122	1	LEVER, control valve, lower
24	013058	1	CAPSCREW, 3/8"NC x 1-1/4"
	904206	1	LOCKWASHER, 3/8"
25	644064	1	BELLCRANK ASSEMBLY, speed shift lever (Includes item 26)
26	637286	2	BUSHING, bellcrank

(Continued)

SPEED CONTROL LINKAGE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
27	639790	2	SHAFT, pivot	
	919761	2	PIN, roll, 1/8" x 1-1/4"	
28	640637	1	SPRING, bellcrank	
29	099575	1	CAPSCREW, bellcrank spring (3/8"NF x 2-1/4")	
	911048	2	NUT, jam, 3/8"NF	
30	012992	1	CAPSCREW, bellcrank spring (3/8"NF x 1-1/4")	
	911048	2	NUT, jam, 3/8"NF	
31	639916	1	END, rod (male)	
32	012992	1	CAPSCREW, 3/8"NF x 1-1/4"	
	904206	1	LOCKWASHER, 3/8"	
	911048	1	NUT, jam, 3/8"NF	
33	639784	1	BELLCRANK ASSEMBLY, modulating valve rod (Includes item 34)	
34	628157	1	BUSHING, bellcrank	
35	641969	1	ROD, modulating valve	
	911048	1	NUT, jam, 3/8"NF	
36	078810	1	PIN, yoke, modulating valve rod	
	900801	1	PIN, cotter, 3/32" x 3/4"	
37	644065	1	BRACKET ASSEMBLY, neutral lock (Includes item 38)	
38	637286	2	BUSHING, neutral lock bracket	
39	639839	1	LEVER, neutral lock	
40	078810	1	PIN, yoke, 3/8" diam.	
	900801	1	PIN, cotter, 3/32" x 3/4"	
41	632038	1	KNOB, neutral lock lever	
42	641008	1	SPRING, neutral lock lever spring	
43	036034	1	CAPSCREW, neutral lock bracket (3/8"NF x 1")	
	911048	1	NUT, jam, 3/8"NF	
44	631844	1	SWITCH, safety (Includes mounting nuts)	
45	641979	1	BAR, adjustment, neutral lock bracket	
46	036032	2	CAPSCREW, 3/8"NF x 3/4"	
	904206	2	LOCKWASHER, 3/8"	
	911115	2	WASHER, plain, SAE std., 3/8"	
47	642109	1	SPACER, control guide	
48	655666	1	KNOB, PTO lockout rod	Used with GUIDE ASSEMBLY 655777 only
	918111	1	PIN, spring, 1/8" x 1"	
49	653701	1	SPRING, PTO lockout rod	
50	655779	1	ROD, PTO lockout	
	916168	1	PIN, spring, 1/8" x 3/4"	
	910244	1	WASHER, plain, SAE std., 1/2"	
51	655663	1	PLATE, PTO lockout	
	918547	2	PIN, spring, 1/8" x 1/2"	



SPEED CONTROL LINKAGE (Second type)

SPEED CONTROL LINKAGE

USAGE: All Model 21GS; also Model 21G serial No. 14577 and up.

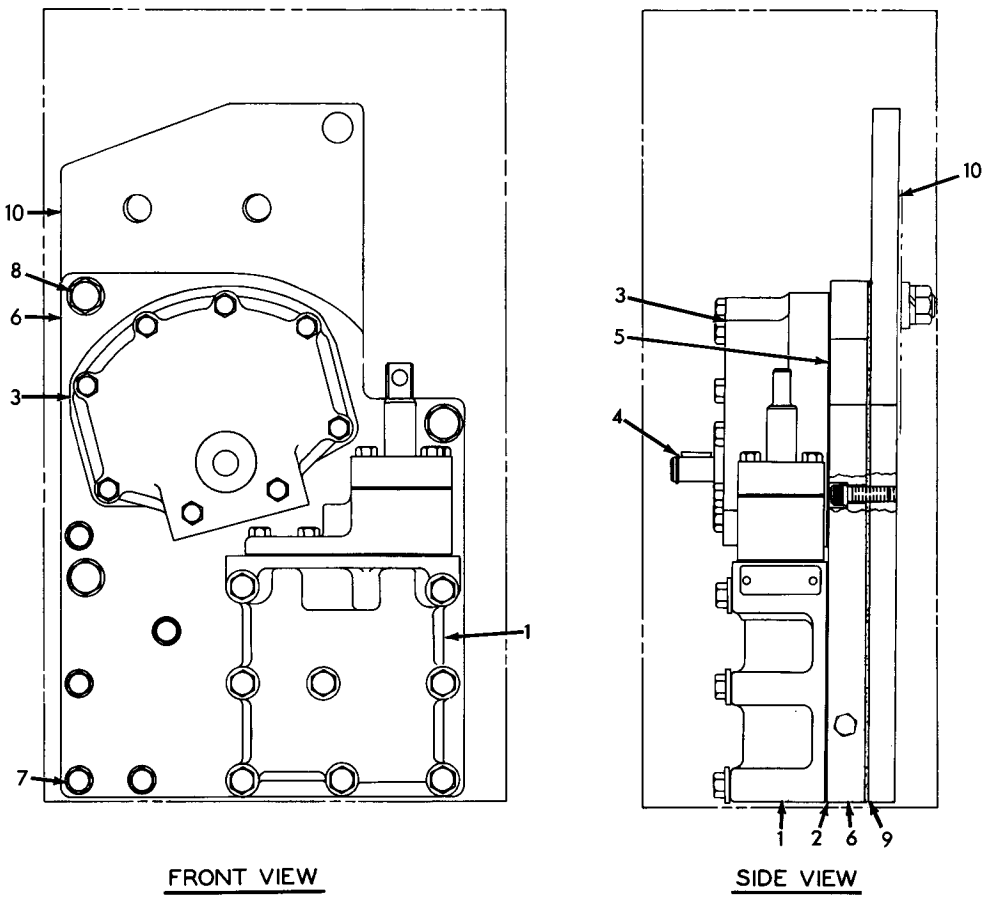
ITEM	PART NO.	QTY.	DESCRIPTION
1	655777	1	GUIDE ASSEMBLY. control (Includes items 5 and 6)
2	035439	2	CAPSCREW, 3/8"NC x 1"
	904206	2	LOCKWASHER, 3/8"
	044973	2	WASHER, plain
3	035061	2	CAPSCREW, 1/2"NC x 1-1/4"
4	028979	1	CAPSCREW, 1/2"NC x 2-1/2"
	064531	1	WASHER, plain
	904208	3	LOCKWASHER, 1/2"
	911028	1	NUT, 1/2"NC
5	639785	1	BUSHING, control guide, front
6	628157	1	BUSHING, control guide, rear
7	629709	1	KNOB, speed shift lever
8	639766	1	LEVER, speed shift
9	656155	1	PIN, lever pivot
	911115	2	WASHER, plain, SAE std., 3/8"
	900806	2	PIN, cotter, 1/8" x 1"
10	656159	1	SHAFT, speed shift lever
	915989	1	PIN, roll, 3/16" x 1-3/8"
11	639775	1	LEVER, control valve, upper
	905123	1	KEY, #9 woodruff, 3/16" x 3/4"
12	046419	1	CAPSCREW, 3/8"NF x 2"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
13	639778	1	ROD, control valve, upper
	911048	2	NUT, jam, 3/8"NF
14	617932	4	END, rod (female)
15	036039	4	CAPSCREW, 3/8"NF x 1-3/8"
	904206	4	LOCKWASHER, 3/8"
	911041	4	NUT, 3/8"NF
16	639753	1	LEVER, control valve, lower
17	203188	1	CAPSCREW, 3/8"NF x 1-1/2"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
18	644064	1	BELLCRANK ASSEMBLY, speed shift lever (Includes item 19)
19	637286	2	BUSHING, bellcrank
20	639790	2	SHAFT, pivot
	919761	2	PIN, roll, 1/8" x 1-1/4"
21	640637	1	SPRING, bellcrank

(Continued)

SPEED CONTROL LINKAGE (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
22	099575	1	CAPSCREW, bellcrank spring (3/8"NF x 2-1/4")
	911048	2	NUT, jam, 3/8"NF
23	012992	1	CAPSCREW, bellcrank spring (3/8"NF x 1-1/4")
	911048	2	NUT, jam, 3/8"NF
24	639916	1	END, rod (male)
25	012992	1	CAPSCREW, 3/8"NF x 1-1/4"
	904206	1	LOCKWASHER, 3/8"
	911048	1	NUT, jam, 3/8"NF
26	639784	1	BELLCRANK ASSEMBLY, modulating valve rod (Includes item 27)
27	628157	1	BUSHING, bellcrank
28	639779	1	ROD, modulating valve
	911048	1	NUT, jam, 3/8"NF
29	078810	1	PIN, yoke, modulating valve rod
	900801	1	PIN, cotter, 3/32" x 3/4"
30	644065	1	BRACKET ASSEMBLY, neutral lock (Includes item 31)
31	637286	2	BUSHING, neutral lock bracket
32	639839	1	LEVER, neutral lock
33	078810	1	PIN, yoke, 3/8" diam.
	900801	1	PIN, cotter, 3/32" x 3/4"
34	632038	1	KNOB, neutral lock lever
35	641008	1	SPRING, neutral lock lever
36	036034	1	CAPSCREW, neutral lock bracket (3/8"NF x 1")
	911048	1	NUT, jam, 3/8"NF
37	631844	1	SWITCH, safety (Includes mounting nuts)
38	641979	1	BAR, adjustment, neutral lock bracket
39	036032	2	CAPSCREW, 3/8"NF x 3/4"
	904206	2	LOCKWASHER, 3/8"
	911115	2	WASHER, plain, SAE std., 3/8"
40	655666	1	KNOB, PTO lockout rod
	918111	1	PIN, spring, 1/8" x 1-1/8"
41	653701	1	SPRING, PTO lockout rod
42	655779	1	ROD, PTO lockout
	916168	1	PIN, spring, 1/8" x 3/4"
	910244	1	WASHER, plain, SAE std., 1/2"
43	655663	1	PLATE, PTO lockout
	918547	2	PIN, spring, 1/8" x 1/2"

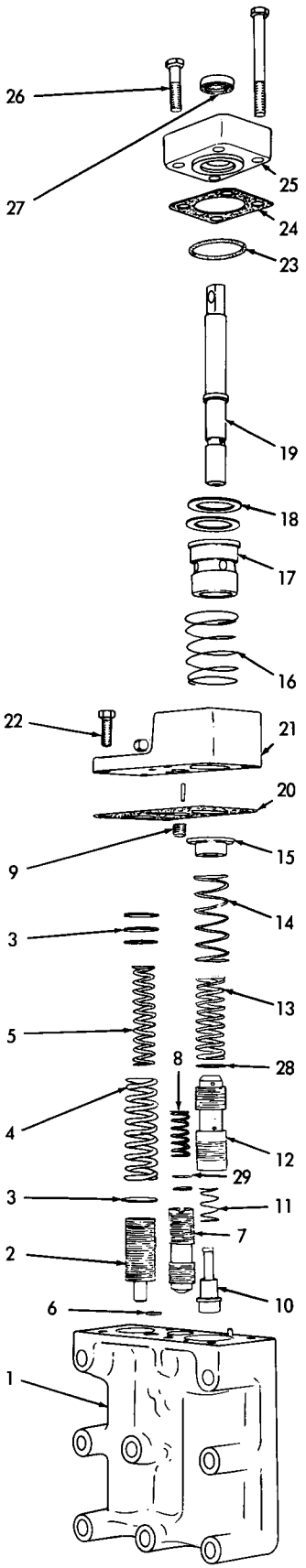
Used on loaders #14730 thru #14937 only



T-39383

SPEED CONTROL VALVES

ITEM	PART NO.	QTY.	DESCRIPTION
1	639614	1	VALVE ASSEMBLY, modulating, clutch (See page 185 for parts)
	919801	8	CAPSCREW, 3/8"NC x 4"
	911115	8	WASHER, plain, SAE std., 3/8"
2	639903	1	GASKET, modulating valve
3	639646	1	VALVE ASSEMBLY, speed control (See page 186 for parts)
	905123	1	KEY, #9 woodruff, 3/16" x 3/4"
	919784	8	CAPSCREW, 5/16"NC x 4"
4	639946	1	RING, snap, speed control valve
5	639882	1	GASKET, speed control valve
6	639642	1	PLATE, manifold, valve
	651036	1	PLUG, pipe, hex-hd., 1/4"NPT
7	053616	5	CAPSCREW, 3/8"NC x 1-3/4"
	911115	5	WASHER, plain, SAE std., 3/8"
8	070403	3	CAPSCREW, 1/2"NF x 3"
	064531	3	WASHER, plain
	904208	3	LOCKWASHER, 1/2"
	911043	3	NUT, 1/2"NF
9	639950	1	GASKET, manifold plate
10	639641	1	PLATE, mounting, manifold
	912267	1	SCREW, hex-socket-hd., 3/8"NC x 1"



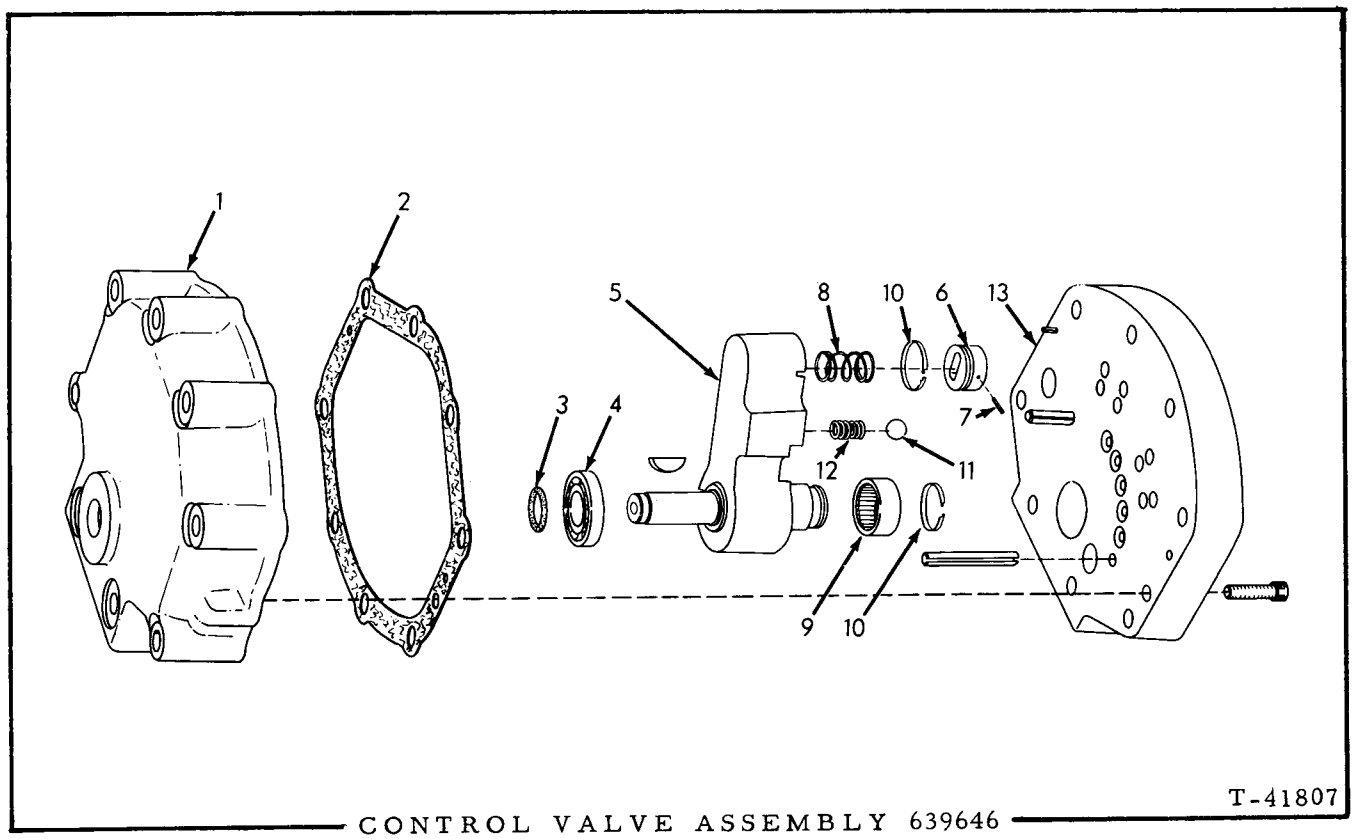
T-41806

MODULATING VALVE ASSEMBLY 639614

MODULATING VALVE ASSEMBLY 639614

USAGE: See page 183

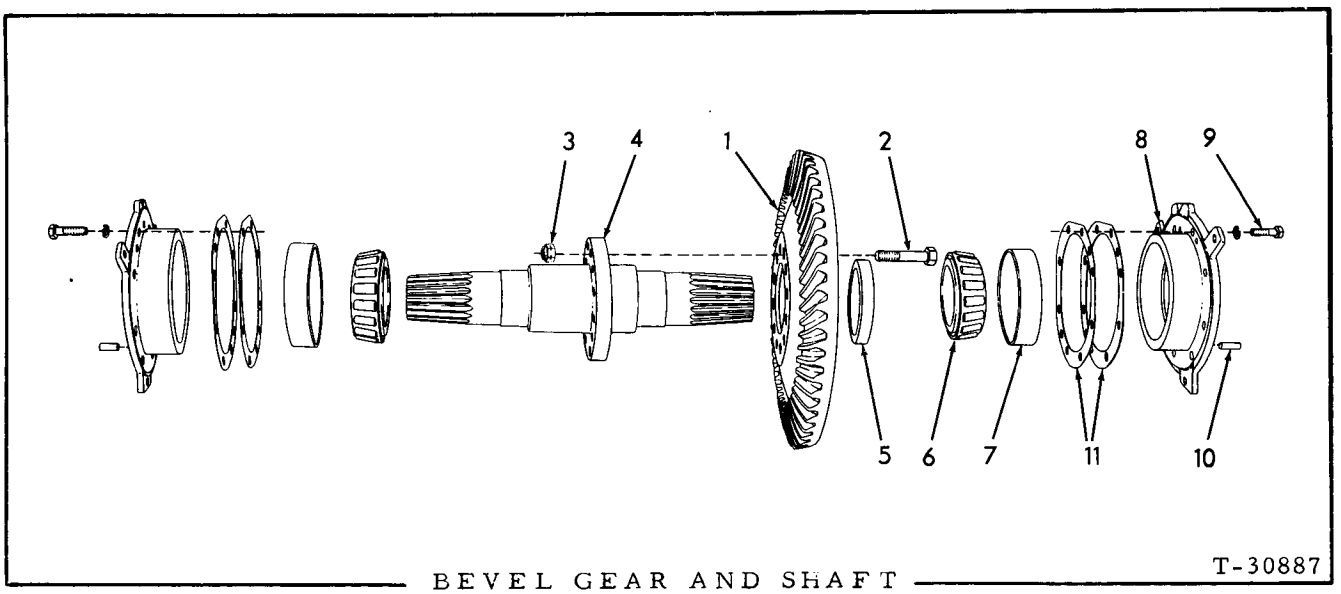
ITEM	PART NO.	QTY.	DESCRIPTION
1	639970	1	BODY
2	639920	1	VALVE, pressure regulating, transmission clutches
3	3037730	4	SHIM, transmission clutch regulating valve
4	639947	1	SPRING, transmission clutch regulating valve (outer)
5	639948	1	SPRING, transmission clutch regulating valve (inner)
6	639939	1	FILTER, oil
7	639933	1	PISTON, flow sensing
8	639949	1	SPRING, flow sensing piston
9	655636	1	PLUG, orifice
10	640121	1	PISTON, engine clutch regulating valve
11	639969	1	SPRING, regulating valve piston
12	639749	1	VALVE, pressure regulating, engine clutch
13	644268	1	SPRING, engine clutch regulating valve
14	640205	1	SPRING, operating plunger piston
15	639921	1	PISTON, operating plunger
16	640206	1	SPRING, variable stop sleeve
17	639929	1	SLEEVE, variable stop
18	639937	2	SHIM, variable stop sleeve (Use as required)
19	639763	1	PLUNGER, operating
20	639638	1	GASKET, lower cover
21	639907	1	COVER, lower
	910231	1	PLUG, pipe, 1/8"NPT
	918547	2	PIN, spring, 1/8" x 1/2"
22	054130	3	CAPSCREW, 5/16"NC x 7/8"
23	186266	1	O-RING, upper cover
24	639924	1	GASKET, upper cover
25	639639	1	COVER, upper
	918397	3	CAPSCREW, 5/16"NC x 3"
26	046321	1	CAPSCREW, 5/16"NC x 1-1/2"
27	640146	1	SEAL, oil, upper cover
28	644265	-	SHIM, regulating valve spring (Use as required)
29	644266	-	WASHER, flow sensing piston spring (Use as required)



CONTROL VALVE ASSEMBLY 639646

USAGE: See page 183

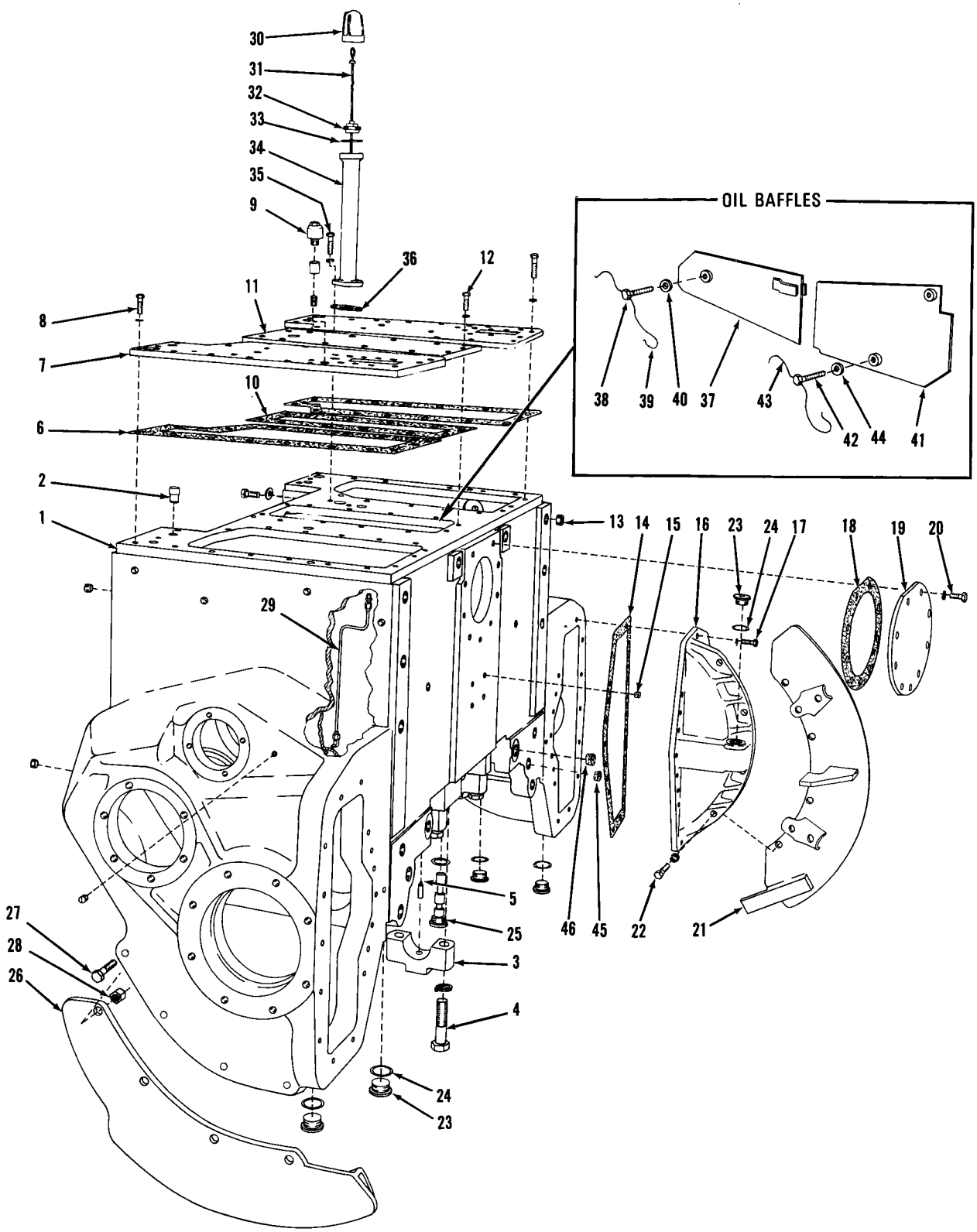
ITEM	PART NO.	QTY.	DESCRIPTION
1	644277	1	COVER
2	644276	1	GASKET, cover
3	186266	1	O-RING, valve shaft
4	186668	1	BEARING, ball, valve cover
5	639846	1	SHAFT ASSEMBLY (Includes arm and pin)
6	639919	1	WIPER
7	639976	1	PIN, wiper (1/16" x 1/4")
8	639969	1	SPRING, wiper
9	050442	1	BEARING, roller, adapter
10	637623	2	RING, sealing, valve shaft and wiper
11	915905	1	BALL, steel (3/8" diam.)
12	642849	1	SPRING, detent ball
13	644278	1	ADAPTER
	918547	2	PIN, spring, 1/8" x 1/2" (dowel)
	920449	2	PIN, spring, 1/4" x 2" (stop)
	912262	1	CAPSCREW, hex-socket-hd., 1/4"NC x 1"



BEVEL GEAR AND SHAFT

ITEM	PART NO.	QTY.	DESCRIPTION	
1	629085	1	GEAR, bevel (45 teeth)	
2	645321	12	CAPSCREW	
3	645319	12	NUT, elastic stop, 3/4"NF	
4	093945	1	SHAFT, bevel gear	
5	645316	1	RING, spacing, shaft bearing	
6	051997	2	CONE ASSEMBLY, shaft bearing	
7	042877	2	CUP, shaft bearing	
8	623006	2	CAGE ASSEMBLY, bearing (Includes item 10)	
9	035073	16	CAPSCREW, 1/2"NF x 1-3/4"	
	904208	16	LOCKWASHER, 1/2"	
10	052459	4	PIN, bearing cage	
11	067483	12	SHIM, bearing adjustment (.005" thick)	Use as required
	067484	10	SHIM, bearing adjustment (.007" thick)	
	067485	4	SHIM, bearing adjustment (.030" thick)	

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"


OIL BAFFLES
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T-38154

MAIN HOUSING

ITEM	PART NO.	QTY.	DESCRIPTION
1	664274	1	HOUSING ASSY. (Includes items 2 thru 5)(When replacing on early units also order 2 SHAFTS 664280. If for loaders prior to #14336 also order 2 CAGE 650420, 2 RETAINER 650419, 4 SHIM 650417, 4 SHIM 650418, 12 CAPSCREW 035248 and 14 SHIM 650416)
	911081	2	PLUG, pipe, slotted-hd., 1/4"NPT
	904223	2	PLUG, pipe, ctsk-hd., 1/2"NPT
2	643740	2	PIN, dowel, clutch compartment covers
3	664301	2	CAP ASSY., track frame connecting, inner (Includes item 5)
	058019	2	CAP, track frame connecting shaft, outer
4	073424	8	CAPSCREW, 1"NF x 4"
	910916	8	LOCKWASHER, 1"
5	664270	2	PIN, dowel, connecting shaft cap
6	629435	2	GASKET, clutch compartment cover plate
7	628637	2	PLATE, cover clutch compartment
8	035073	28	CAPSCREW, 1/2"NF x 1-3/4"
	904208	28	LOCKWASHER, 1/2"
9	050748	2	BREATHER, final drive
	901765	2	COUPLING, pipe, 3/8"NPT
	901489	2	NIPPLE, pipe, 3/8"NPT x 1"
10	623262	1	GASKET, bevel gear compartment top cover(Loaders prior to #14274)
	651421	1	GASKET, bevel gear compartment top cover(Loaders #14274 and up)
11	623261	1	COVER, bevel gear compartment, top (Loaders prior to #14274)
	651369	1	COVER, bevel gear compartment, top (Loaders #14274 and up)
12	035073	12	CAPSCREW, 1/2"NF x 1-3/4"
	904208	12	LOCKWASHER, 1/2"
13	052979	8	PLUG, thread protecting (1-1/4"NF, socket-hd.)
14	621486	2	GASKET, final drive compartment cover
15	664851	4	CORK, thread protecting, 5/8" diam.
16	656983	1	COVER, final drive compartment, left
	656984	1	COVER, final drive compartment, right
17	035018	32	CAPSCREW, 1/2"NF x 1-1/2"
	904208	32	LOCKWASHER, 1/2"
18	052976	1	GASKET, gear compartment cover
19	052977	1	COVER, bevel gear compartment, rear
20	921731	9	CAPSCREW, Nylok, 5/8"NC x 1-1/4"
	904209	9	LOCKWASHER, 5/8"

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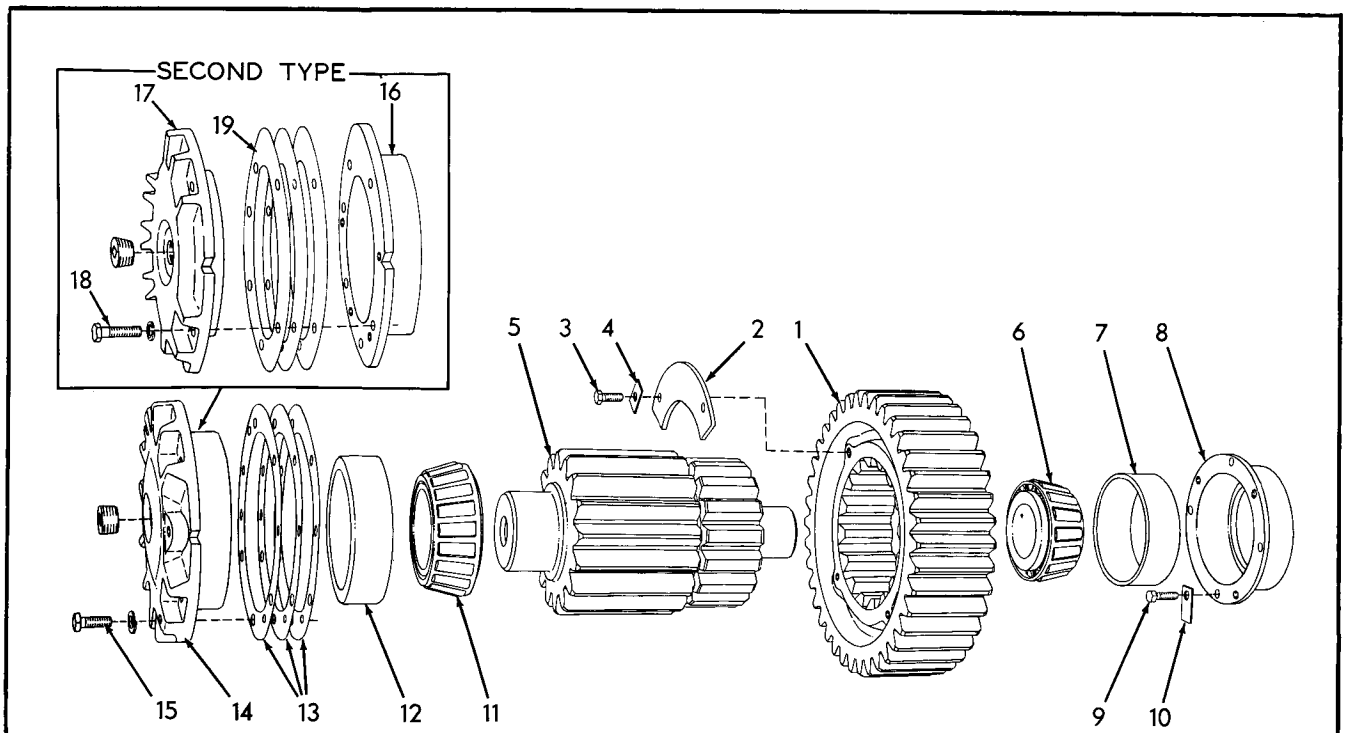
MAIN HOUSING (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
21	647567	1	GUARD, track sprocket, upper left } Special equipment
	647568	1	GUARD, track sprocket, upper right } Special equipment
22	070161	8	CAPSCREW, 5/8"NF x 2-3/4" (Early units)
	031990	8	CAPSCREW, 5/8"NC x 2-1/2" (Late units)
	904209	8	LOCKWASHER, 5/8"
23	035250	6	PLUG, filling and drain
24	667252	7	GASKET, filling and drain plugs
25	067543	1	PLUG, drain, bevel gear compartment (magnetic)
26	621563	1	GUARD, track sprocket, lower left } Loaders prior to #14142 } Special equipment
	621564	1	GUARD, track sprocket, lower right } Loaders prior to #14142 } Special equipment
	647565	1	GUARD, track sprocket, lower left } Loaders #14142 and up } Special equipment
	647566	1	GUARD, track sprocket, lower right } Loaders #14142 and up } Special equipment
27	023618	8	CAPSCREW, 5/8"NF x 2-1/2"
28	072366	8	NUT, high, 5/8"NF
29	623065	2	TUBE ASSY., final drive breather (Includes nuts)
	919173	2	ELBOW, flare type, 1/4" tube, 1/8"NPT male
	919171	2	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
30	034265	1	CAP, oil filler tube
31	630222	1	GAUGE, oil level (Loaders prior to #14614)
	661145	1	GAUGE, oil level (Loaders #14614 and up)
32	034268	1	PLUG, oil filler tube
33	034269	1	GASKET, oil filler tube plug
34	630228	1	TUBE, oil filler (Loaders prior to #14614)
	661142	1	TUBE, oil filler (Loaders #14614 and up)
35	035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	904208	2	LOCKWASHER, 1/2"
36	632368	1	GASKET, oil filler tube
37	640109	1	BAFFLE, oil, front section
38	099963	1	CAPSCREW, drilled-hd., 3/8"NC x 2"
39	023633	1	WIRE, locking, 1/16" x 12"
40	044973	1	WASHER, plain
41	642308	1	BAFFLE, oil, rear section
42	099963	2	CAPSCREW, drilled-hd., 3/8"NC x 2"
43	023756	1	WIRE, locking, 1/16" x 26"
44	044973	2	WASHER, plain
45	642259	4	CORK, thread protecting (1-9/16" diam.)
46	664852	8	CORK, thread protecting (1-1/4" diam.)(Used only when drawbar is removed)



FINAL DRIVE INTERMEDIATE GEARS T-11291

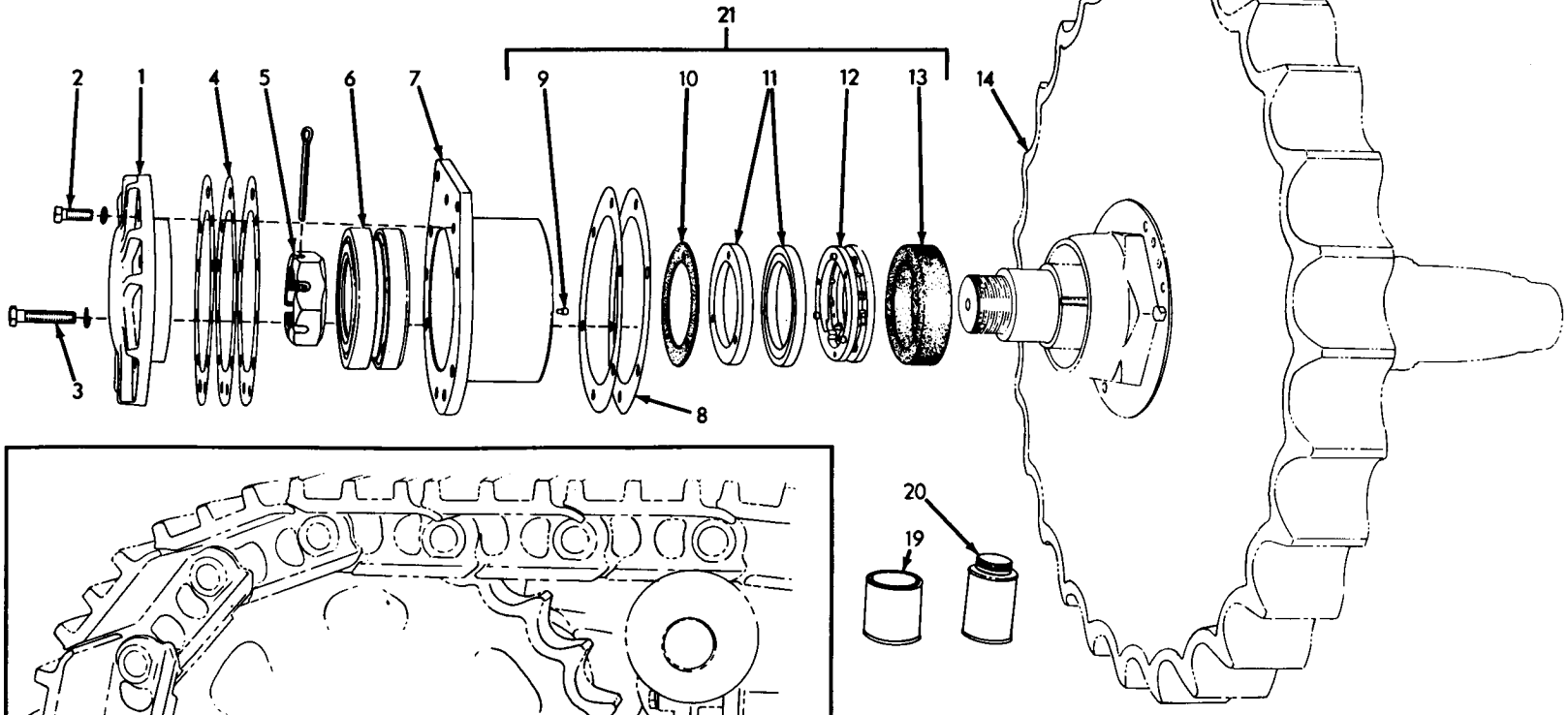
* Loaders prior to serial No. 14335
** Loaders serial No. 14335 and up

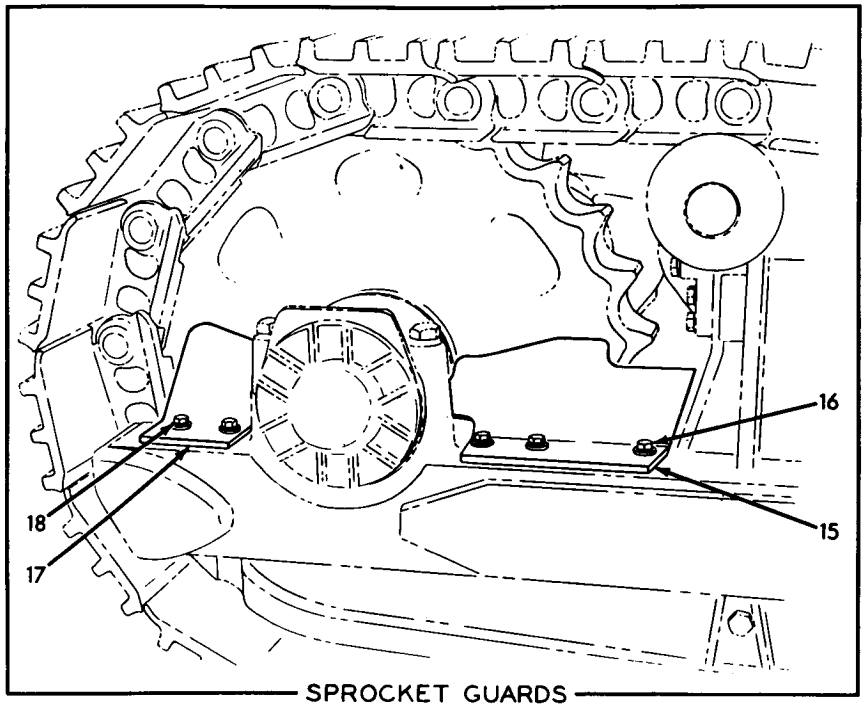
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION	
1	051967	2	2	GEAR (38 teeth)	
2	052372	4	4	LOCK, gear	
3	036034	8	8	CAPSCREW, 3/8"NF x 1"	
4	052444	8	8	LOCK, capscrew	
5	622812	2	2	PINION (16 teeth)	
6	061456	2	2	CONE ASSEMBLY, pinion inner bearing	
7	605334	2	2	CUP, pinion inner bearing	
8	650668	2	2	CAGE, pinion inner bearing cup	
9	036034	8	8	CAPSCREW, 3/8"NF x 1"	
10	068999	8	8	LOCK, capscrew	
11	051989	2	2	CONE ASSEMBLY, pinion outer bearing	
12	051988	2	2	CUP, pinion outer bearing	
13	094120	4	-	SHIM, bearing adjustment (.005")	Use as required
	094121	4	-	SHIM, bearing adjustment (.007")	
	094122	14	-	SHIM, bearing adjustment (.010")	

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION	
14	621479	2	-	CAGE, pinion outer bearing	
	901666	2	-	PLUG, pipe, ctsk-hd., 1"NPT	
15	023465	12	-	CAPSCREW, 5/8"NF x 1-3/4"	
	904209	12	-	LOCKWASHER, 5/8"	
16	650420	-	2	CAGE, pinion outer bearing	
17	650419	-	2	RETAINER, pinion outer bearing	
	901666	-	2	PLUG, pipe, ctsk-hd., 1"NPT	
18	035248	-	12	CAPSCREW, 5/8"NF x 2-1/4"	
	904209	-	12	LOCKWASHER, 5/8"	
19	650418	-	10	SHIM, bearing adjustment (.005")	Use as required
	650417	-	10	SHIM, bearing adjustment (.007")	
	650416	-	14	SHIM, bearing adjustment (.010")	

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"





SPROCKET GUARDS

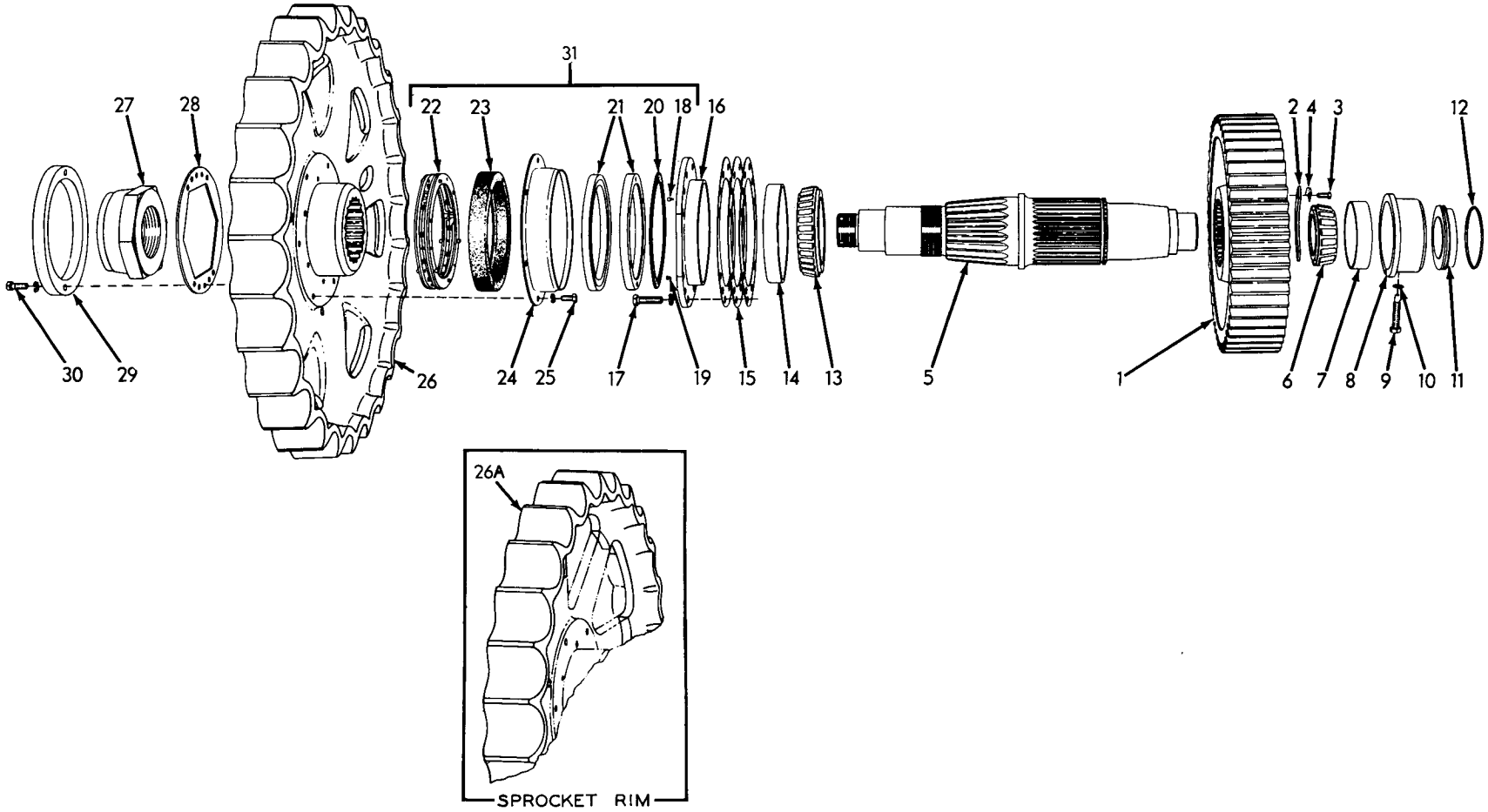
T-38155

FINAL DRIVE OUTBOARD BEARING AND SEAL

FINAL DRIVE OUTBOARD BEARING AND SEAL

ITEM	PART NO.	QTY.	DESCRIPTION
1	082316	2	CAP, outboard bearing
2	614478	6	CAPSCREW, 1/2"NF x 1-3/8"
	904208	6	LOCKWASHER, 1/2"
3	013467	12	CAPSCREW, 5/8"NF x 3"
	904209	12	LOCKWASHER, 5/8"
4	082358	4	SHIM, outboard bearing cap (.005" thick. Use as req'd)
	082357	4	SHIM, outboard bearing cap (.007" thick. Use as req'd)
	082356	8	SHIM, outboard bearing cap (.010" thick. Use as req'd)
5	082311	2	NUT, retaining, outboard bearing
	904016	2	PIN, cotter, 3/8" x 4"
6	082306	2	BEARING, roller, outboard (Each consists of 1 roller assembly and 2 cups. Serviced only as a unit)
7	082327	2	CAGE, outboard bearing
8	069761	12	SHIM, outboard bearing cage. (015" thick. Use as req'd)
9	084432	6	□PIN, locating, seal ring
10	082309	2	□GASKET, seal ring
11	082303	4	□RING, seal
12	082317	2	□FOLLOWER ASSEMBLY, seal (Serviced only as a unit)
13	082312	2	□BOOT, seal
14	------	-	SPROCKET (See SPROCKET, SHAFT AND GEAR)
15	622411	1	PLATE, front closure, left side
	622412	1	PLATE, front closure, right side
16	023755	6	CAPSCREW, 5/8"NC x 2-1/4"
	904209	6	LOCKWASHER, 5/8"
	602448	6	WASHER, plain
17	622413	1	PLATE, rear closure, left side
	622414	1	PLATE, rear closure, right side
18	023755	4	CAPSCREW, 5/8"NC x 2-1/4"
	904209	4	LOCKWASHER, 5/8"
	602448	4	WASHER, plain
19	033288	-	CEMENT, neoprene, 1/2 pt. can } For cementing boots and gaskets
20	054890	-	SOLVENT, neoprene cement, 1/2 pt. can } For cementing boots and gaskets
21	091979	2	SEAL KIT, final drive (Includes parts for one (1) side only; items 9 thru 13)

□Components of item 21



T-17409

FINAL DRIVE SPROCKET, SHAFT AND GEAR

FINAL DRIVE SPROCKET, SHAFT AND GEAR

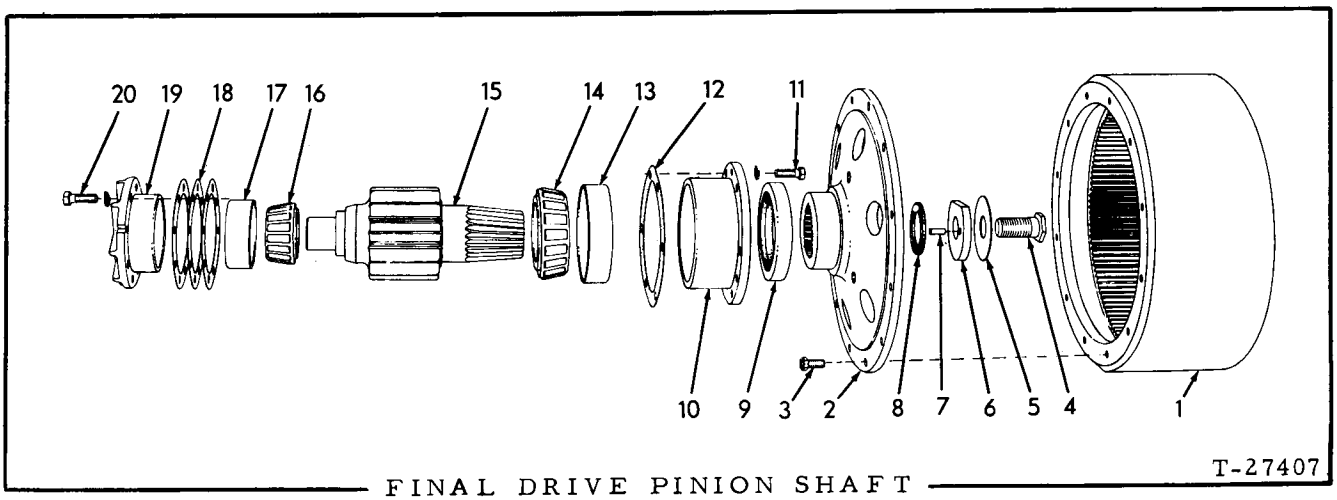
ITEM	PART NO.	QTY.	DESCRIPTION
1	651274	2	GEAR, driving (51 teeth)(If for loaders prior to #14350 also order 4 CAPSCREW 035439)
2	052161	4	LOCK, gear retaining
3	036034	8	CAPSCREW, 3/8"NF x 1" (Loaders prior to #14350)
	035439	8	CAPSCREW, 3/8"NC x 1" (Loaders #14350 and up)
4	052444	8	LOCK, capscrew
5	099962	2	SHAFT, sprocket
6	051997	2	CONE ASSEMBLY, inner bearing
7	042877	2	CUP, inner bearing
8	067350	2	CAGE, inner bearing cup
9	067348	2	SETSCREW, hex-hd., dog-pt., 5/8"NF x 3"
10	049918	2	WASHER, plain (copper)
11	091573	2	COVER, inner bearing
12	923824	2	O-RING, inner bearing cover
13	082307	2	CONE ASSEMBLY, intermediate bearing
14	082308	2	CUP, intermediate bearing
15	067518	4	SHIM, bearing adjustment (.005" thick. Use as req'd)
	067519	4	SHIM, bearing adjustment (.007" thick. Use as req'd)
	067520	20	SHIM, bearing adjustment (.010" thick. Use as req'd)
16	082310	2	CAGE ASSEMBLY, intermediate bearing (Includes items 18 and 19)
17	035229	16	CAPSCREW, 5/8"NF x 2"
	904209	16	LOCKWASHER, 5/8"
18	084432	6	□PIN, locating, seal ring (9/16" long)
19	080547	6	□PIN, locating, seal ring gasket (13/32" long)
20	082320	2	□GASKET, seal ring
21	082322	4	□RING, inner seal
22	082326	2	□FOLLOWER ASSEMBLY, inner seal (Serviced only as a unit)
23	082323	2	□BOOT, inner seal
24	082321	2	GUARD, seal
25	035221	12	CAPSCREW, 1/2"NC x 1"
	904208	12	LOCKWASHER, 1/2"
26	663424	2	SPROCKET, track driving (Standard. Has flat tooth-base)
	622171	2	SPROCKET, track driving (Special. Has skeleton tooth-base to minimize packing of track)
26A	663429	2	SPROCKET RIM (Flat tooth-base. Requires welding to install)

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
27	082318	2	NUT, sprocket retaining
28	082315	2	LOCK, sprocket retaining nut
29	630056	2	RING, nut protecting
30	035190	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
31	091978	2	SEAL KIT, final drive (Includes parts for one (1) side only; items 18 thru 23)

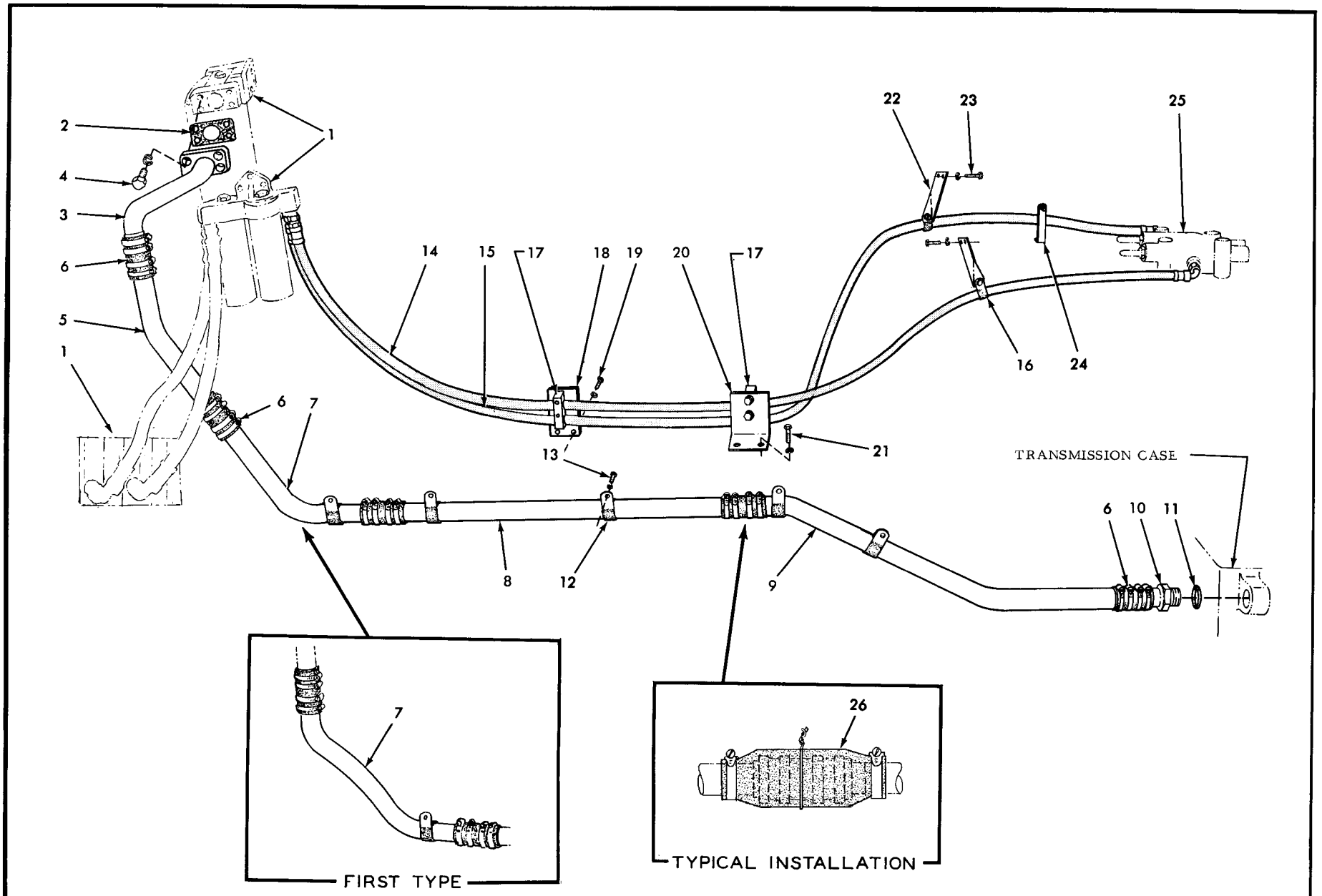
□Components of item 31

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



FINAL DRIVE PINION SHAFT

ITEM	PART NO.	QTY.	DESCRIPTION
1	093953	2	DRUM, brake
2	623344	2	HUB, brake drum
3	650811	24	BOLT, brake drum (5/8"NC x 1-1/2")
4	071085	2	CAPSCREW, hub retaining
5	623347	2	WASHER, locking, hub retaining
6	623345	2	WASHER ASSEMBLY, hub retaining (Includes item 7)
7	052066	2	PIN, hub retaining washer
8	623346	2	SEAL, oil, pinion shaft (rubber)
9	623350	2	SEAL, oil, brake drum hub
10	623349	2	CAGE, inner bearing cup
11	035018	12	CAPSCREW, 1/2"NF x 1-1/2"
	904208	12	LOCKWASHER, 1/2"
12	052420	2	GASKET, bearing cage
13	042877	2	CUP, inner bearing
14	051997	2	CONE ASSEMBLY, inner bearing
15	093949	2	PINION (14 teeth)
16	082304	2	CONE ASSEMBLY, outer bearing
17	082305	2	CUP, outer bearing
18	084048	4	SHIM, bearing adjustment (.005" thick. Use as required)
	084049	4	SHIM, bearing adjustment (.007" thick. Use as required)
	084050	20	SHIM, bearing adjustment (.010" thick. Use as required)
19	082319	2	CAGE, outer bearing cup
20	035018	8	CAPSCREW, 1/2"NF x 1-1/2"
	904208	8	LOCKWASHER, 1/2"



HYDRAULIC STEERING CONTROL

T-70549

HYDRAULIC STEERING CONTROL

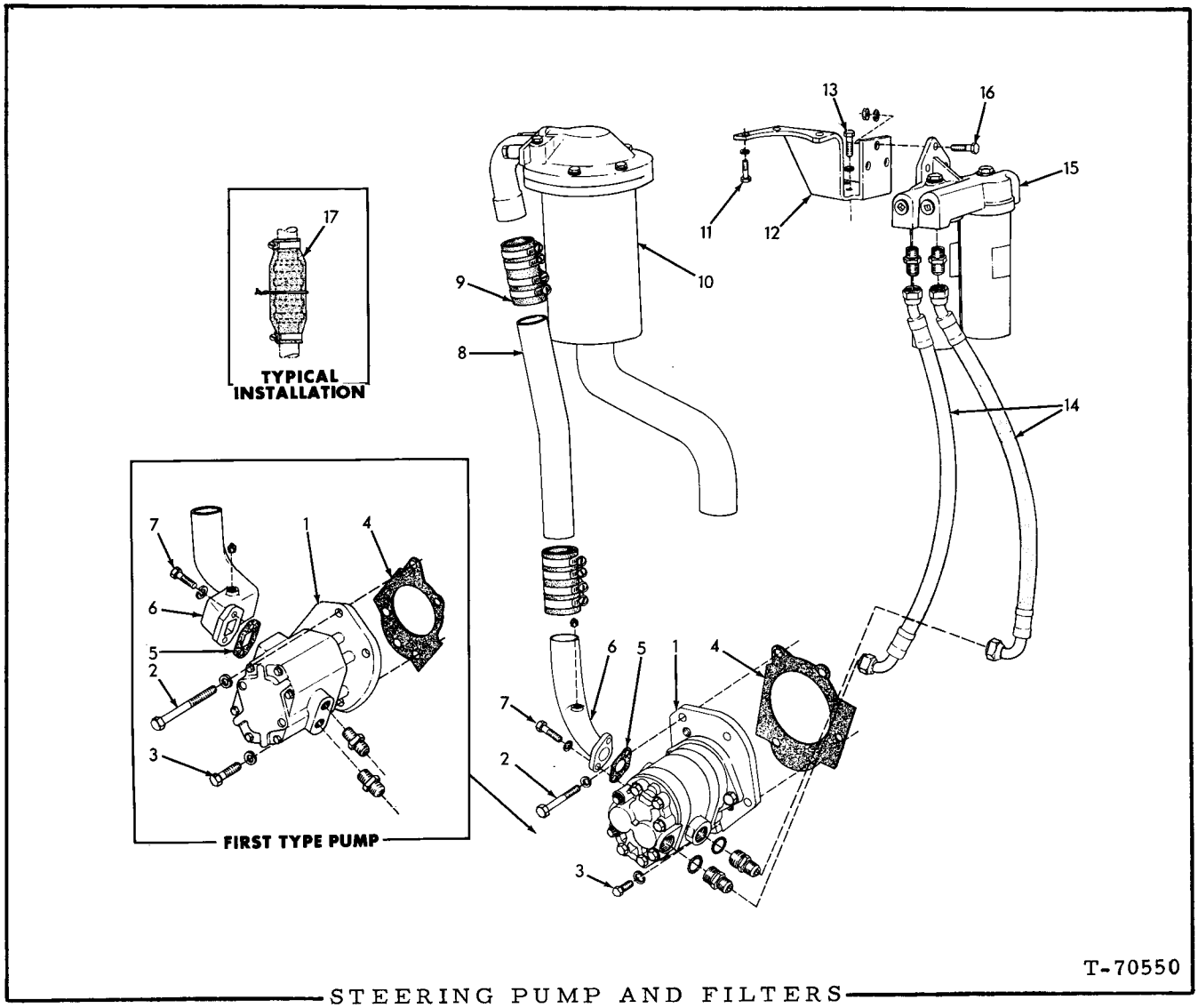
* Loaders prior to serial No. 14774
** Loaders serial No. 14774 and up

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	------	-	-	STEERING PUMP AND FILTERS (See pages 204 and 206 for details)
2	652011	-	1	GASKET, suction line elbow
3	652018	-	1	ELBOW, suction line
4	035061	-	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	-	4	LOCKWASHER, 1/2"
5	652013	-	1	TUBE, suction line, front upper section
6	623234	4	5	HOSE, suction line
	921913	16	20	CLAMP, hose, 1-13/16" to 2-3/4" diam.
7	641762	1	-	TUBE, suction line, front section
	652016	-	1	TUBE, suction line, front section
8	623094	1	1	TUBE, suction line, intermediate front section
9	641962	1	1	TUBE, suction line, rear section
10	641963	1	1	ADAPTER, suction line
11	921887	1	1	O-RING, suction line adapter
12	623235	5	5	CLIP, tube supporting
13	035221	5	5	CAPSCREW, 1/2"NC x 1"
	904208	5	5	LOCKWASHER, 1/2"
14	644609	1	1	HOSE, filter to valve, left (See HOSE PARTS)
	919342	1	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
	919615	1	-	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male (Loaders prior to #14274)
	922935	1	1	CONNECTOR, flare type, 3/4" tube, 3/4"NF male end (Includes O-RING 921349)(Loaders #14274 and up)
15	644607	1	1	HOSE, filter to valve, right (See HOSE PARTS)
	919342	1	1	CONNECTOR, flare type, 3/4" tube, 3/4"NPT male
	919615	1	-	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male (Loaders prior to #14274)
	922935	1	1	CONNECTOR, flare type, 3/4" tube, 3/4"NF male end (Includes O-RING 921349)(Loaders #14274 and up)
16	644612	3	3	CLIP, hose supporting (1-3/16" diam., 17/32" bolt-hole)
	036034	3	3	CAPSCREW, 3/8"NF x 1"
	911115	3	3	WASHER, plain, SAE std., 3/8"
	904206	3	3	LOCKWASHER, 3/8"
	911041	3	3	NUT, 3/8"NF
17	644611	4	4	CLAMP, hose supporting (Half only)
	916388	4	4	CAPSCREW, 3/8"NF x 2-3/4"
	904206	4	4	LOCKWASHER, 3/8"
	044973	4	4	WASHER, plain
	911041	4	4	NUT, 3/8"NF

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION	
18	644614	1	1	PLATE, hose supporting clamps	
19	035061	2	2	CAPSCREW, 1/2"NC x 1-1/4"	
	904208	2	2	LOCKWASHER, 1/2"	
20	644615	1	1	ANGLE, hose supporting clamps	
21	035525	2	2	CAPSCREW, 1/2"NF x 1-1/8"	
	904208	2	2	LOCKWASHER, 1/2"	
22	630881	2	2	ANGLE, hose supporting, intermediate	
23	012992	4	4	CAPSCREW, 3/8"NF x 1-1/4"	
	904206	4	4	LOCKWASHER, 3/8"	
24	631110	1	1	ANGLE, hose supporting, rear	
25	------	-	-	VALVE (See STEERING CONTROL VALVE AND LINES)	
26	629839	5	5	SHEET, asbestos, hose insulating (9" x 20")	Model 21GS only
	023756	5	5	WIRE, retaining (1/16" x 26")	
	921913	10	10	CLAMP, hose, 1-13/16" to 2-3/4" diam.	

MEMO



STEERING PUMP AND FILTERS

USAGE: Loaders prior to serial No. 14774

* Loaders prior to serial No. 14484

** Loaders serial No. 14484 thru 14773

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	641625	1	-	PUMP ASSEMBLY ("Webster". See page 208 for parts)(Order PUMP ASSEMBLY 655782, ELBOW 655998, GASKET 655999, 2 CONNECTORS 922981, 2 CAPSCREWS 044249 and 2 LOCKWASHER 904206)
	655782	-	1	PUMP ASSEMBLY ("Cessna". See page 209 for parts)
2	082013	3	3	CAPSCREW, 3/8"NC x 3-1/4"
	904206	3	3	LOCKWASHER, 3/8"
3	041250	2	2	CAPSCREW, 7/16"NC x 1-1/4"
	904207	2	2	LOCKWASHER, 7/16"
4	4371742	1	1	GASKET, steering pump
5	082811	1	-	GASKET, inlet elbow
	655999	-	1	GASKET, inlet elbow

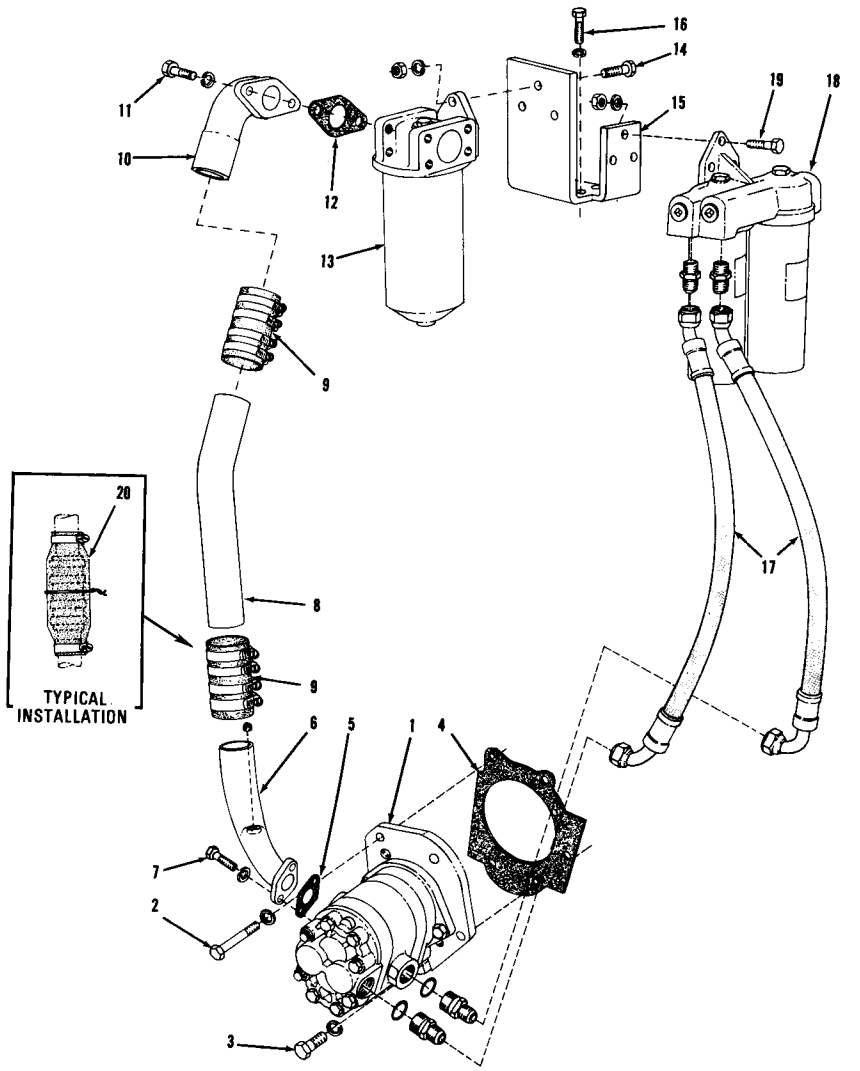
(Continued)

STEERING PUMP AND FILTERS (Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
6	643570	1	-	ELBOW, pump inlet
	655998	-	1	ELBOW, pump inlet
	901651	1	1	PLUG, pipe, 1/8" NPT
7	041250	2	-	CAPSCREW, 7/16"NC x 1-1/4"
	904207	2	-	LOCKWASHER, 7/16"
	044249	-	2	CAPSCREW, 3/8"NC x 1-1/8"
	904206	-	2	LOCKWASHER, 3/8"
8	643573	1	1	TUBE, pump inlet
9	623234	2	2	HOSE, suction line
	921913	8	8	CLAMP, hose, 1-13/16" to 2-3/4" diam.
10	643606	1	1	FILTER ASSEMBLY, suction line (See page 211 for parts)
11	070469	3	3	CAPSCREW, 1/2"NF x 1-1/4"
	904208	3	3	LOCKWASHER, 1/2"
12	645101	1	1	BRACKET, filter mounting
13	035061	4	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	4	LOCKWASHER, 1/2"
14	647414	2	2	HOSE, pump to filter (See HOSE PARTS)
	919342	2	2	CONNECTOR, flare type,3/4" tube, 3/4"NPT male
	919615	2	-	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
	922981	-	2	CONNECTOR, flare type, 3/4" tube, 7/8" straight male thread (Includes O-RING 921205)
15	633797	1	1	FILTER ASSEMBLY, pressure line (See page 210 for parts)
16	035073	3	3	CAPSCREW, 1/2"NF x 1-3/4"
	904208	3	3	LOCKWASHER, 1/2"
	911043	3	3	NUT, 1/2"NF
17	629839	2	2	SHEET, asbestos, hose insulating (9" x 20") } Model 21GS only
	023756	2	2	WIRE, retaining (1/16" x 26") } Model 21GS only
	921913	4	4	CLAMP, hose, 1-13/16" to 2-3/4" diam. } Model 21GS only

NOTE: See PAINTING AND MARKING for transfer

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



T-73737

STEERING PUMP AND FILTERS

USAGE: Loaders serial No. 14774 and up

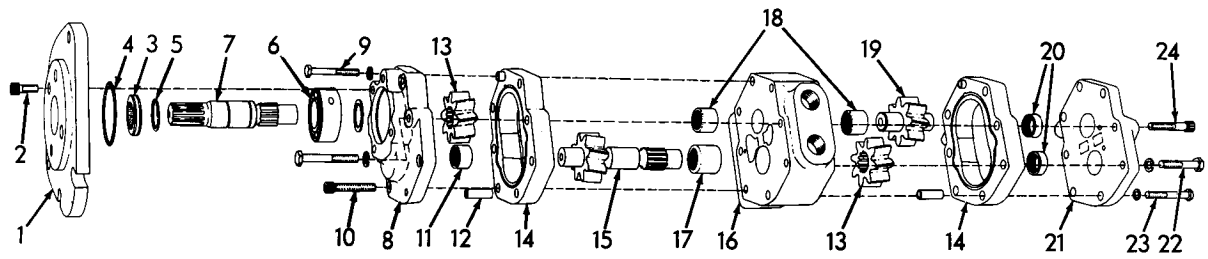
ITEM	PART NO.	QTY.	DESCRIPTION
1	655782	1	PUMP ASSEMBLY (See page 209 for parts)
2	082013	3	CAPSCREW, 3/8" NC x 3-1/4"
	904206	3	LOCKWASHER, 3/8"
3	041250	2	CAPSCREW, 7/16" NC x 1-1/4"
	904207	2	LOCKWASHER, 7/16"
4	082810	1	GASKET, pump mounting
5	655999	1	GASKET, inlet elbow

(Continued)

STEERING PUMP AND FILTERS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
6	655998	1	ELBOW, pump inlet
	901651	1	PLUG, pipe, 1/8" NPT
7	044249	2	CAPSCREW, 3/8" NC x 1-1/8"
	904206	2	LOCKWASHER, 3/8"
8	652014	1	TUBE, pump inlet
9	623234	2	HOSE, suction line
	921913	8	CLAMP, hose, 1-13/16" to 2-3/4" diam.
10	652019	1	ELBOW, pump inlet
11	035061	2	CAPSCREW, 1/2" NC x 1-1/4"
	904208	2	LOCKWASHER, 1/2"
12	652012	1	GASKET, inlet elbow
13	651113	1	FILTER ASSEMBLY, suction line (See page 211 for parts)
14	035073	3	CAPSCREW, 1/2" NF x 1-3/4"
	904208	3	LOCKWASHER, 1/2"
	911043	3	NUT, 1/2" NF
15	652017	1	BRACKET, filter mounting
16	035061	4	CAPSCREW, 1/2" NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
17	652015	2	HOSE, pump to filter (See HOSE PARTS)
	919342	2	CONNECTOR, flare type, 3/4" tube, 3/4 NPT male
	922981	2	CONNECTOR, flare type, 3/4" tube, 1-1/16" straight male thread (Includes O-RING 921206)
18	633797	1	FILTER ASSEMBLY, pressure line (See page 210 for parts)
19	035073	3	CAPSCREW, 1/2" NF x 1-3/4"
	904208	3	LOCKWASHER, 1/2"
	911043	3	NUT, 1/2" NF
20	629839	2	SHEET, asbestos, hose insulating (9" x 20") } Model 21GS only
	023756	2	WIRE, retaining (1/16" x 26") } Model 21GS only
	921913	4	CLAMP, hose, 1-13/16" x 2-3/4" diam. } Model 21GS only

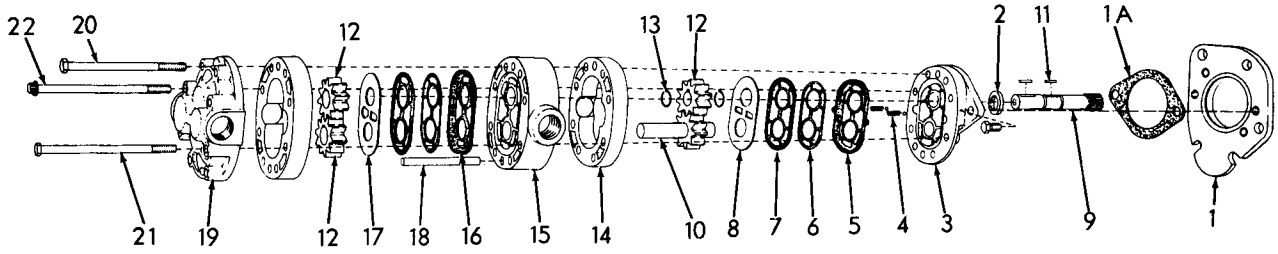
NOTE: See PAINTING AND MARKING for transfers



STEERING PUMP ASSEMBLY 641625 ("Webster") T-41804

USAGE: See page 204

ITEM	PART NO.	QTY.	DESCRIPTION
1	643449	1	PLATE ASSEMBLY, adapting (Includes item 3)
2	643551	4	CAPSCREW, socket-hd., 5/16"NC x 3/4"
3	643438	1	SEAL, oil
4	3039053	1	O-RING, adapting plate
5	628161	2	RING, snap, drive shaft
6	4255031	1	BEARING, ball
7	644913	1	SHAFT, drive
8	643496	1	BODY ASSEMBLY (Includes item 11)
	921160	4	CAPSCREW, 5/16"NC x 2-1/4"
	904205	4	LOCKWASHER, 5/16"
9	054305	2	CAPSCREW, 1/4"NC x 2"
	904204	2	LOCKWASHER, 1/4"
10	643553	2	CAPSCREW, socket-hd., 5/16"NC x 1-1/2"
11	208253	1	BEARING, needle, driven shaft (small)
12	643544	4	PIN, dowel (hollow)
13	643545	2	GEAR (splined)
14	643534	2	PLATE, gear housing
15	644898	1	SHAFT ASSEMBLY, driven (Includes gear. Serviced only as a unit)
16	643492	1	PLATE ASSEMBLY, center (Includes items 17 and 18)
17	234692	1	BEARING, needle, driven shaft (large)
18	208253	2	BEARING, needle
19	644897	1	SHAFT ASSEMBLY, idler (Includes gear. Serviced only as a unit)
20	4254654	2	BEARING, needle, pump cover
21	643491	1	COVER ASSEMBLY (Includes item 20)
22	051473	4	CAPSCREW, 5/16"NC x 1-3/4"
	904205	4	LOCKWASHER, 5/16"
23	054305	2	CAPSCREW, 1/4"NC x 2"
	904204	2	LOCKWASHER, 1/4"
24	643552	2	CAPSCREW, socket-hd., 5/16"NC x 1-3/4"

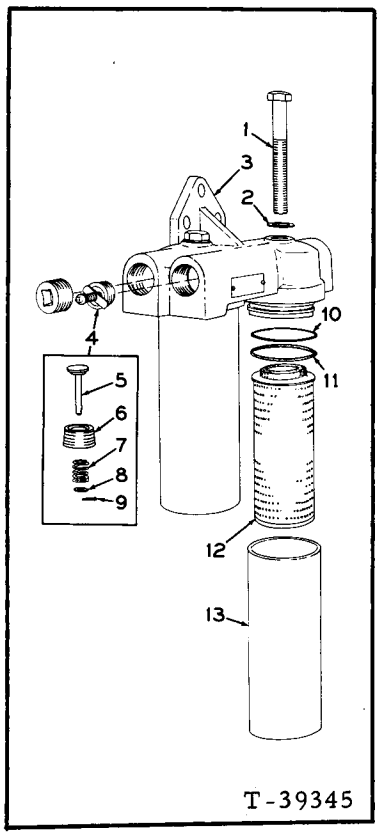


STEERING PUMP ASSEMBLY 655782 ("Cessna") T-72496

USAGE: See pages 204 and 206

ITEM	PART NO.	QTY.	DESCRIPTION
1	653932	1	PLATE, adapting
	916222	2	CAPSCREW, 7/16"NC x 7/8"
1A	656179	1	GASKET, front plate
2	650677	1	SEAL, oil
3	653929	1	PLATE ASSEMBLY, front (Includes bushings)
4	650679	2	SPRING, check valve
	915903	2	BALL, steel, 7/32" diam.
5	650673	1	SEAL, front diaphragm
6	650676	2	GASKET, diaphragm (thin)
7	650675	2	GASKET, diaphragm (thick)
8	650674	1	DIAPHRAGM, sealing, front
9	653933	1	SHAFT, drive
10	653931	1	GEAR ASSEMBLY, idler (Includes shaft)
11	650672	2	KEY, pump gear
12	650189	3	GEAR, pump
13	653936	2	RING, snap, pump gear
14	650193	2	BODY, outer
15	653934	1	BODY, center (Includes bushings)
16	650678	1	SEAL, rear diaphragm
17	827650	1	DIAPHRAGM, sealing, rear
18	653937	2	PIN, dowel
19	653930	1	PLATE, rear
20	919223	4	CAPSCREW, 5/16"NC x 4-1/2"
21	924226	2	CAPSCREW, 5/16"NC x 5"
22	924227	2	SCREW, 12 pt-hd., 5/16"NC x 5"

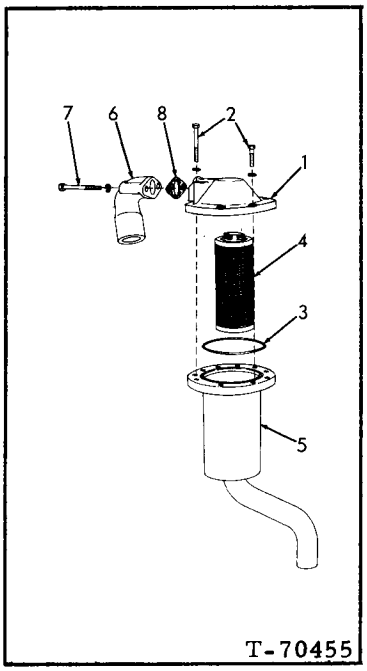
FILTER ASSEMBLY 633797



USAGE: See pages 204 and 206

ITEM	PART NO.	QTY.	DESCRIPTION
1	638796	2	CAPSCREW, tank retaining (5/8"NF x 5")
2	631869	2	WASHER, tank retaining capscrew
3	633310	1	HEAD
	901661	2	PLUG, pipe, ctsk-hd., 1"NPT
4	661534	2	VALVE ASSEMBLY, by-pass (Consists of items 5 thru 9)
5	------	2	VALVE, by-pass (Order item 4)
6	------	2	HOUSING, by-pass valve (Order item 4)
7	631870	2	SPRING, valve (1-1/4" long)(Early units)
	661268	2	SPRING, valve (1-7/16" long)(Late units)
8	632060	2	WASHER, by-pass valve spring
9	632061	2	RING, snap, by-pass valve (Early units)
	900970	2	PIN, cotter, 1/16" x 1/2" (Late units)
10	632062	2	RING, back-up, filter head o-ring
11	632063	2	O-RING, filter head
12	631828	2	ELEMENT KIT (Includes items 2, 10 and 11)
13	631872	2	TANK

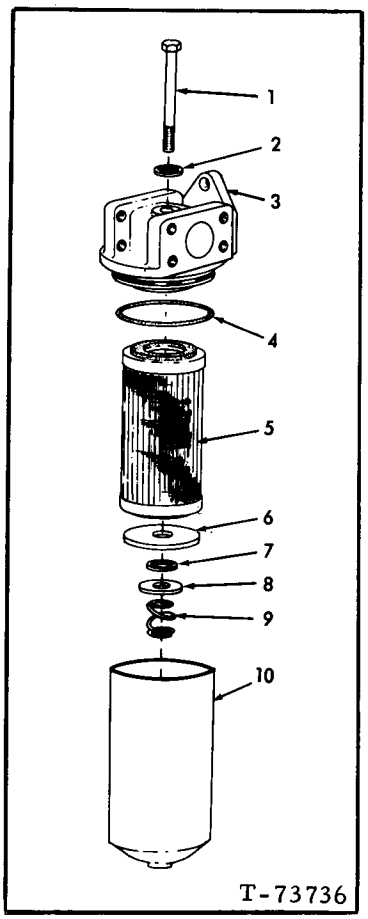
FILTER ASSEMBLY 643606



USAGE: See page 204

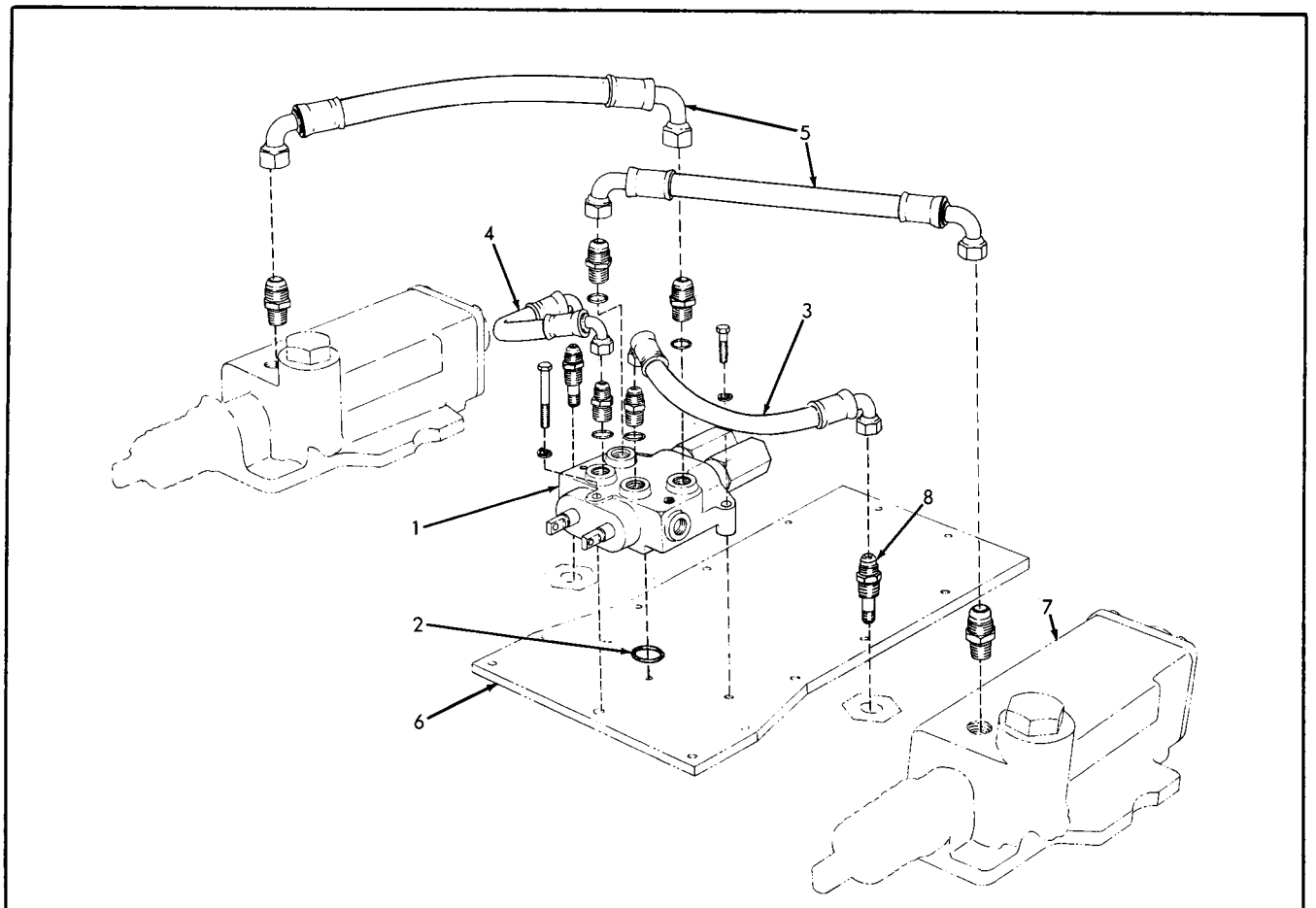
ITEM	PART NO.	QTY.	DESCRIPTION
1	644827	1	COVER
2	012992	4	CAPSCREW, 3/8"NF x 1-1/4"
	914339	2	CAPSCREW, 3/8"NF x 2-3/4"
	904206	6	LOCKWASHER, 3/8"
3	923824	1	O-RING
4	623268	1	SCREEN
5	641758	1	HOUSING
6	644828	1	ELBOW, outlet
7	058936	2	CAPSCREW, 3/8"NC x 2-3/4"
	904206	2	LOCKWASHER, 3/8"
8	644816	1	GASKET, outlet elbow

FILTER ASSEMBLY 651113



USAGE: See page 206

ITEM	PART NO.	QTY.	DESCRIPTION
1	918553	1	CAPSCREW, 7/16" x 4-1/2"
2	651533	1	WASHER, head capscrew
3	651529	1	HEAD
4	923834	1	O-RING, tank sealing
5	651532	1	ELEMENT
6	656574	1	PLATE, bottom (large)
7	641029	1	WASHER, sealing
8	656573	1	WASHER, bottom (small)
9	656572	1	SPRING, element retaining
10	651531	1	TANK



CONTROL VALVE AND LINES T-30894

* Loaders prior to serial No. 14274
** Loaders serial No. 14274 and up

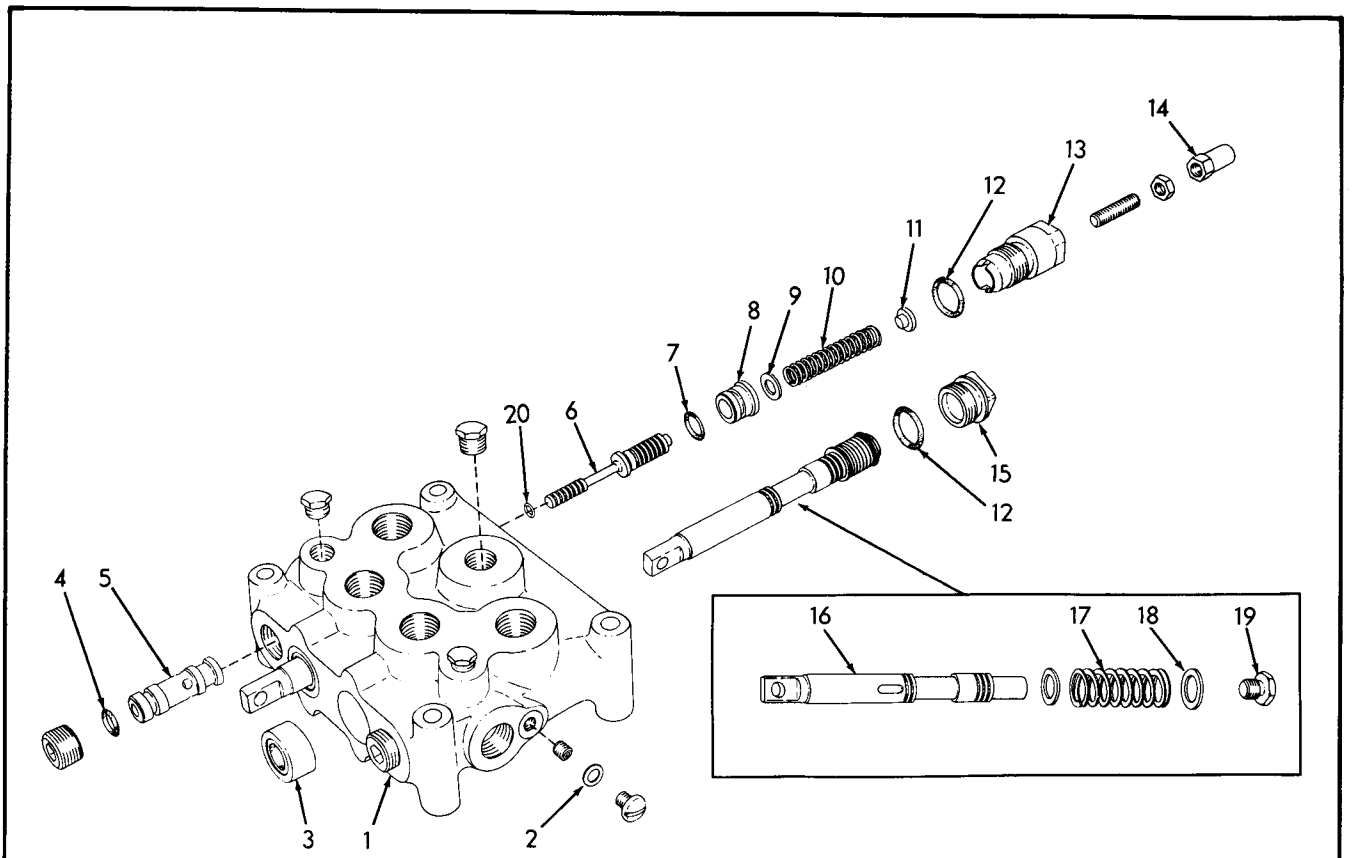
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	643550	1	-	VALVE ASSEMBLY, control("Hydreco". See page 214 for parts) (Order VALVE ASSEMBLY 651432, 1 CAPSCREW 041911, 2 CAPSCREW 035336, 2 CONNECTOR 921409, 4 CONNECTOR 922935 and print of S-4418)
	917151	2	-	CAPSCREW, 3/8"NF x 3-1/4"
	913633	2	-	CAPSCREW, 3/8"NF x 4"
	904206	4	-	LOCKWASHER, 3/8"
	651432	-	1	VALVE ASSEMBLY, control ("Cessna". See page 216 for parts)
	041911	-	1	CAPSCREW, 3/8"NF x 3-1/2"
	035336	-	2	CAPSCREW, 3/8"NF x 1-3/4"
	904206	-	3	LOCKWASHER, 3/8"
2	923575	1	-	O-RING, valve to compartment cover
	923947	-	1	O-RING, valve to compartment cover
3	644604	1	1	HOSE, clutch control, left (See HOSE PARTS)
	919128	1	-	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
	921409	-	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING 921349)

(Continued)

CONTROL VALVE AND LINES (Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
4	644603	1	1	HOSE, clutch control, right (See HOSE PARTS)
	919128	1	-	CONNECTOR, flare type, 1/2" tube, 1/2"NPT male
	921409	-	1	CONNECTOR, flare type, 1/2" tube, 3/4"NF male end (Includes O-RING 921349)
5	644608	2	2	HOSE, brake control (See HOSE PARTS)
	919615	4	2	CONNECTOR, flare type, 3/4" tube, 1/2"NPT male
	922935	-	2	CONNECTOR, flare type, 3/4" tube, 3/4"NF male end (Includes O-RING 921349)
6	------	-	-	COVER, bevel gear compartment (See MAIN HOUSING)
7	------	-	-	VALVE ASSEMBLY (See BRAKES)
8	628458	2	2	UNION, bulkhead

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



CONTROL VALVE ASSEMBLY 643550 ("Hydreco") T-30892

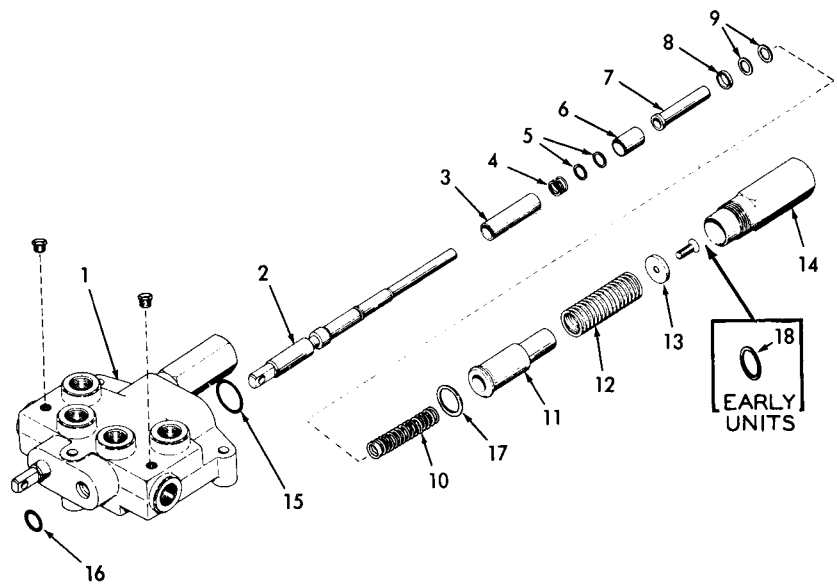
USAGE: See page 212

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	HOUSING (Not serviced separately)
	919840	2	PLUG, pipe, hex-hd., 1/4"NPT
	920333	1	PLUG, pipe, hex-hd., 3/8"NPT
	908944	2	PLUG, pipe, hex-socket, 1/2"NPT
	900585	2	SCREW, machine, 5/16"NC x 5/8"
2	3001737	2	GASKET, plugging screw
3	623420	2	SEAL, oil, operating plunger
4	923548	2	O-RING, relief valve front seat
5	3014007	2	SEAT, relief valve, front
	905564	2	SETSCREW, hex-socket, cup-pt., 5/16"NC x 5/8"
6	623431	2	PLUNGER, relief valve
7	923376	2	O-RING, relief valve rear seat
8	623430	2	SEAT, relief valve, rear
9	631935	2	WASHER, relief valve plunger
10	630528	2	SPRING, relief valve

(Continued)

CONTROL VALVE ASSEMBLY 643550 ("Hydreco") (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
11	623427	2	GUIDE, relief valve spring
12	923574	4	O-RING, rear caps
13	623428	2	CAP, relief valve adjustment
	921303	2	SETSCREW, oval-pt., 3/8"NF x 1-1/2"
	911048	2	NUT, jam, 3/8"NF
14	3002757	2	NUT, acorn, relief valve
15	623429	2	CAP, operating plunger
16	------	2	PLUNGER, operating (Not serviced separately)
17	627378	2	SPRING, operating plunger
18	627377	4	WASHER, operating plunger
19	627380	2	CAP, operating plunger
20	655743	2	O-RING, relief valve plunger

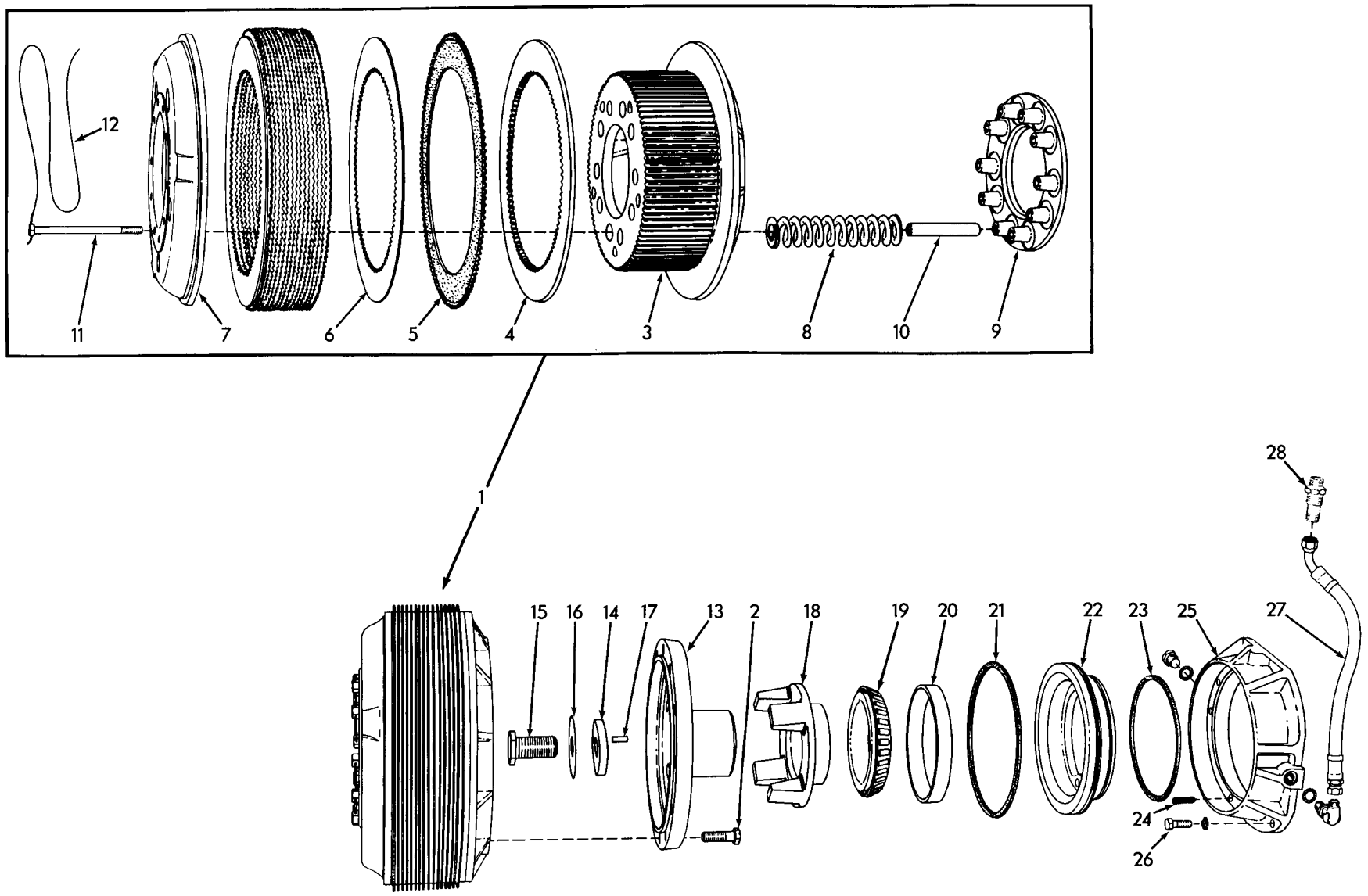


CONTROL VALVE ASSEMBLY 651432 ("Cessna")

T-72040

USAGE: See page 212

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	BODY (Not serviced separately)
	919134	2	PLUG, pipe, hex-hd., 1/8"NPT
2	------	2	PLUNGER (Not serviced separately)
3	651564	2	PISTON, pressure regulating
4	651569	2	SPRING, pressure regulating (short)
5	651576	-	SHIM, pressure adjustment (.015" thick)
	651577	-	SHIM, pressure adjustment (.005" thick)
6	651571	2	SLEEVE, valve plunger (outer)
7	651572	2	SLEEVE, valve plunger (inner)
8	651573	2	WASHER, valve plunger
9	651574	-	SHIM, pressure adjustment (.015" thick)
	651575	-	SHIM, pressure adjustment (.005" thick)
10	661676	2	SPRING, pressure regulating (long)
11	651565	2	SLEEVE, plunger return spring
12	651570	2	SPRING, plunger return
13	651567	2	WASHER, end, valve plunger
	924989	2	SCREW, machine, flat-hd., 1/4"NF x 7/8"
14	651566	2	CAP, valve plunger
15	924416	2	O-RING, valve body (large)
16	923645	2	O-RING, valve body (small)
17	663123	2	SHIM, plunger clearance (Late units) } Use as req'd
18	663124	2	SHIM, plunger clearance (Early units) }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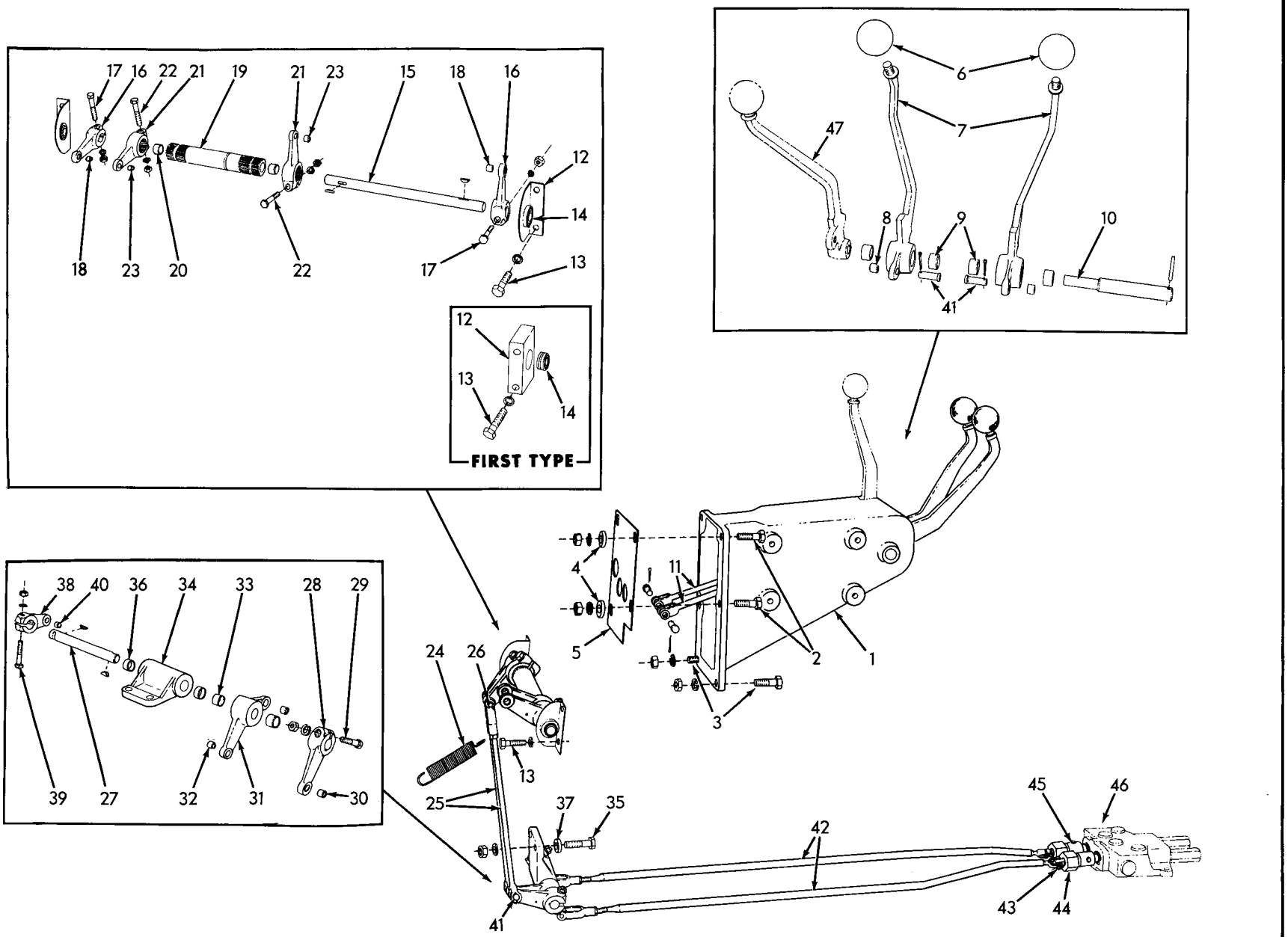
T-40590

STEERING CLUTCHES

ITEM	PART NO.	QTY.	DESCRIPTION
1	623010	2	CLUTCH ASSEMBLY (Consists of items 3 thru 12)
2	650812	24	BOLT, self-locking, 5/8"NC x 2"
3	650691	2	HUB, steering clutch
4	052117	2	PLATE, back (Used prior to loader #14610)
5	623017	32	DISC, friction (bi-metallic)
6	623018	34	DISC, friction (steel)(Use as required)
7	054809	2	PLATE, pressure
8	623016	20	SPRING, pressure
9	051836	2	PLATE, throwout
10	052118	20	SPACER, throwout plate
11	052119	20	CAPSCREW, plate (drilled-hd., 1/2"NF x 6-1/2")
12	052519	4	WIRE, locking, 1/16" x 39"
13	623013	2	HUB, driving
14	623345	2	WASHER ASSEMBLY, hub retaining (Includes item 17)
15	071085	2	BOLT, thin-hd., 1-1/4"NF x 2-1/2"
16	623347	2	WASHER, locking
17	052066	2	PIN, hub retaining washer
18	623014	2	SLEEVE, throwout
19	623007	2	CONE ASSEMBLY, clutch throwout bearing
20	623008	2	CUP, clutch throwout bearing
21	623003	2	RING, sealing, actuating piston, outer
22	623012	2	PISTON, actuating
23	623004	2	RING, sealing, actuating piston, inner
24	040475	6	SPRING, actuating piston
25	642448	2	RING, collector
	921573	2	PLUG, hex-hd., 3/4" straight thread (Includes O-RING 921349)
26	035733	6	CAPSCREW, 1/2"NC x 1-3/8"
	904208	6	LOCKWASHER, 1/2"
27	645074	2	HOSE, oil pressure (See HOSE PARTS)
	921402	2	ELBOW, adjustable, 90°, flare type, 1/2" tube, 3/4" straight thread (Includes washer, nut and O-RING 921349)
28	------	2	UNION (See CONTROL VALVE AND LINES)



T-38153

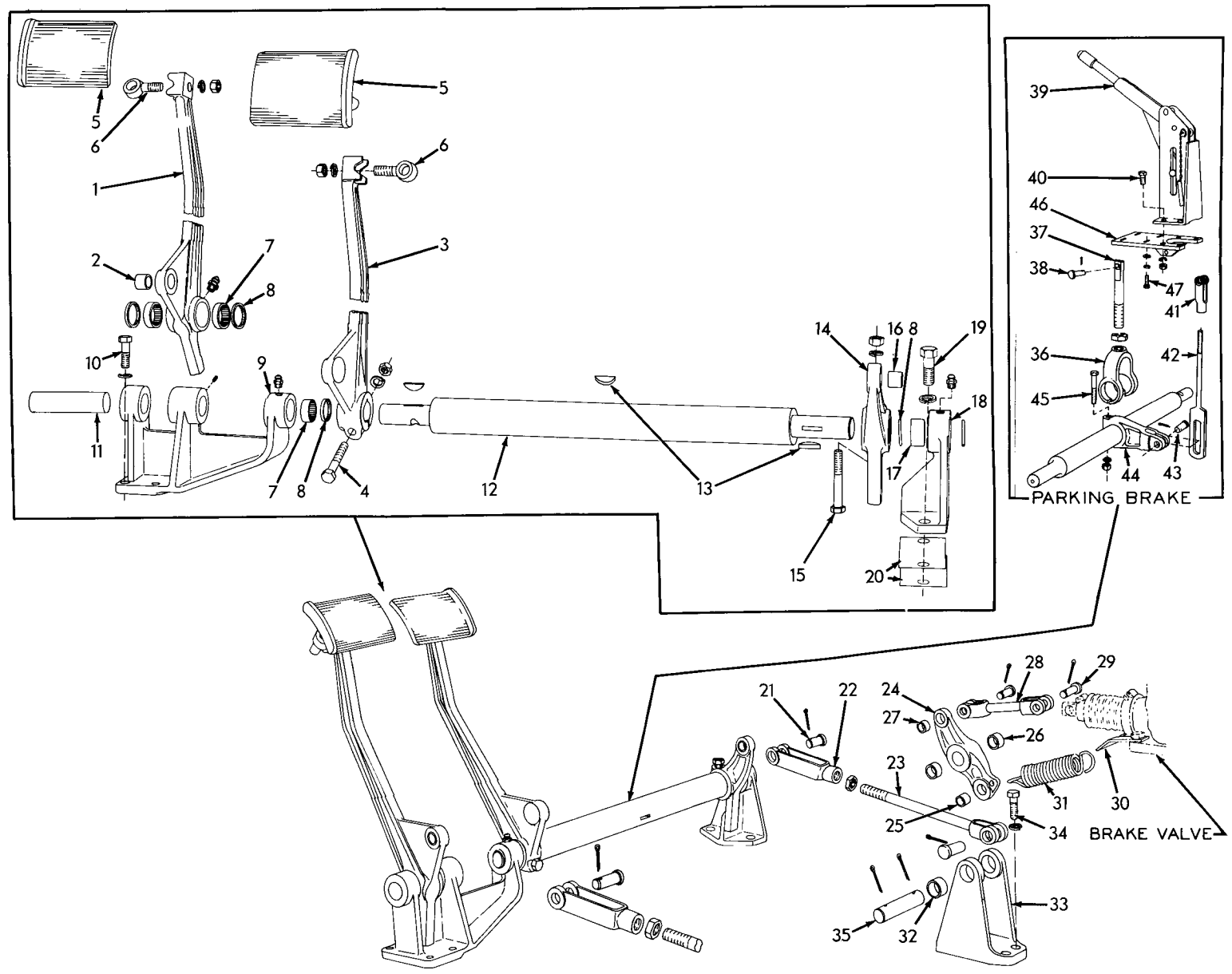
STEERING LEVERS AND LINKAGE

STEERING LEVERS AND LINKAGE

ITEM	PART NO.	QTY.	DESCRIPTION
1	629262	1	BRACKET, steering lever (Used prior to loader #14274)
	651431	1	BRACKET, steering lever (Effective with loaders #14274)
2	035018	4	CAPSCREW, 1/2"NF x 1-1/2"
3	070469	2	CAPSCREW, 1/2"NF x 1-1/4"
4	064531	4	WASHER, plain
	904208	6	LOCKWASHER, 1/2"
	911043	6	NUT, 1/2"NF
5	631421	1	PLATE, air baffle (For units with special suction-type or reversible cooling fans)
6	090020	2	KNOB, steering lever
7	630847	1	LEVER ASSEMBLY, steering, left (Includes items 8 and 9)
	630848	1	LEVER ASSEMBLY, steering, right (Includes items 8 and 9)
8	624584	2	BUSHING, steering lever (small)
9	630795	4	BUSHING, steering lever (Large)
10	629716	1	SHAFT, steering, levers
	915989	1	PIN, spring, 3/16" x 1-3/8"
11	631987	2	ROD, control, upper
12	654656	2	BEARING ASSEMBLY, upper cross shaft (Includes bushing)(If for loaders prior to #14613 also order CAPSCREW 036032)
13	045174	4	CAPSCREW, 3/8"NF x 2-1/2" (Loaders prior to #14613)
	036032	4	CAPSCREW, 3/8"NF x 3/4" (Loaders #14613 and up)
	904206	4	LOCKWASHER, 3/8"
14	643257	2	BUSHING, pillow block (self-aligning, 1-1/4" O. D.)(Loaders prior to #14613)
15	629717	1	SHAFT, cross, upper
	905123	2	KEY, #9 woodruff, 3/16" x 3/4"
16	630837	2	LEVER ASSEMBLY, upper cross shaft (Includes item 18)
17	046419	2	CAPSCREW, 3/8"NF x 2"
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
18	624584	2	BUSHING, upper cross shaft lever
19	648956	1	TUBE ASSEMBLY, torque, upper cross shaft (Includes item 20)
20	630795	2	BUSHING, torque tube
21	630841	2	LEVER ASSEMBLY, torque tube (Includes item 23)
22	099575	2	CAPSCREW, 3/8"NF x 2-1/4"
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
23	624584	2	BUSHING, torque tube lever

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
24	043881	2	SPRING, cross shaft lever
25	630821	2	ROD, control, vertical
	911041	2	NUT, 3/8"NF
26	628736	4	YOKE, control rod
27	629454	1	SHAFT, cross, lower
	905123	2	KEY, #9 woodruff, 3/16" x 3/4"
28	630837	1	LEVER ASSEMBLY, lower cross shaft, left (Includes item 30)
29	046419	1	CAPSCREW, 3/8"NF x 2"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
30	624584	1	BUSHING, lower cross shaft lever
31	630852	1	BELLCRANK ASSEMBLY, lower cross shaft (Includes item 32 and 33)
32	624584	2	BUSHING, lower cross shaft bellcrank (small)
33	630795	2	BUSHING, lower cross shaft bellcrank (large)
34	630850	1	BRACKET ASSEMBLY, lower cross shaft (Includes item 36)
35	035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	904208	2	LOCKWASHER, 1/2"
36	630795	2	BUSHING, lower cross shaft bracket
37	091553	2	SPACER, lower cross shaft bracket
38	630836	1	LEVER ASSEMBLY, lower cross shaft, right (Includes item 40)
39	046419	1	CAPSCREW, 3/8"NF x 2"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
40	624584	1	BUSHING, lower cross shaft lever
41	078810	10	PIN, control linkage yokes
	900801	10	PIN, cotter, 3/32" x 3/4"
42	630763	1	ROD, control, lower right
	630764	1	ROD, control, lower left
	911041	2	NUT, 3/8"NF
43	627451	2	PIN, lower control rod
	900801	2	PIN, cotter, 3/32" x 3/4"
44	656151	2	OVER-TRAVEL ASSEMBLY (Serviced only as a unit)
45	630833	2	PIN, retaining, over-travel
	900801	2	PIN, cotter, 3/32" x 3/4"
46	------	1	VALVE, control (See CONTROL VALVE AND LINES)
47	------	1	LEVER, throttle (See THROTTLE CONTROL)



BRAKE CONTROL

T-38156

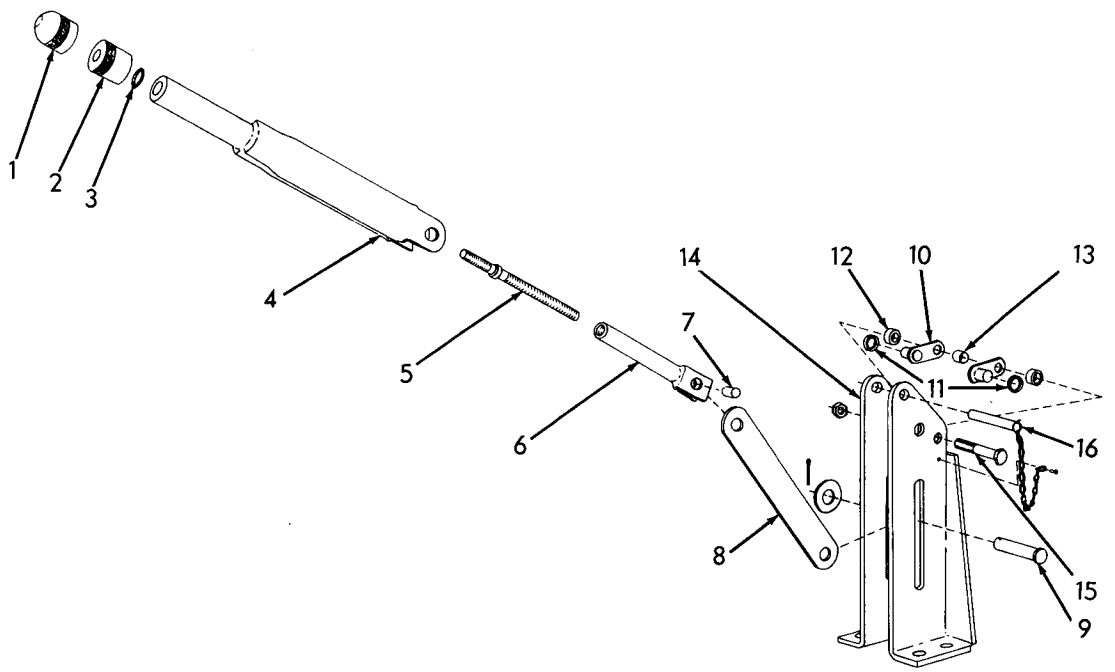
BRAKE CONTROL

ITEM	PART NO.	QTY.	DESCRIPTION
1	631195	1	LEVER ASSEMBLY, pedal, left (Includes item 2)
	914465	1	FITTING, lubricating, straight, 1/8"NPT
2	623164	1	BUSHING, left pedal lever
3	631194	1	LEVER, pedal, right
4	035278	1	CAPSCREW, 1/2"NF x 2-3/4"
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
5	623151	2	PAD, pedal lever
6	050433	2	BOLT, eye, pedal lever pad
	904209	2	LOCKWASHER, 5/8"
	911044	2	NUT, 5/8"NF
7	053244	3	BEARING, needle, pedal shafts (1/2" wide)
8	053243	6	SEAL, dust, pedal shafts
9	651933	1	BRACKET, pedal shaft, left
	914465	1	FITTING, lubricating, straight, 1/8"NPT
10	035073	4	CAPSCREW, 1/2"NF x 1-3/4"
	904208	4	LOCKWASHER, 1/2"
11	052656	1	SHAFT, left pedal
	903093	1	SETSCREW, slotted-hd., cup-pt., 3/8"NC x 5/8"
12	629255	1	SHAFT, right pedal
13	631883	3	KEY, right pedal shaft (1/4" x 1-1/4")
14	629510	1	LFVER ASSEMBLY, right pedal shaft (Includes item 16)
15	042430	1	CAPSCREW, 1/2"NF x 3-1/4"
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
16	623164	1	BUSHING, right pedal shaft lever
17	052642	1	BEARING, needle, right pedal shaft (3/4" wide)
18	651932	1	BRACKET, pedal shaft, right
	914465	1	FITTING, lubricating, straight, 1/8"NPT
19	035073	2	CAPSCREW, 1/2"NF x 1-3/4"
	904208	2	LOCKWASHER, 1/2"
20	629515	2	SHIM, right pedal shaft bracket (.032" thick. Use as req'd)
21	623139	4	PIN, yoke, front rod
	910302	4	PIN, cotter, 5/32" x 1-1/4"
22	628535	2	YOKE, front rod
23	628536	2	ROD, front
	910847	2	NUT, jam, 3/4"NF
24	629081	2	LEVER ASSEMBLY, rocker (Includes items 25, 26 and 27)
25	623164	2	BUSHING, rocker lever, lower
26	631882	4	BUSHING, rocker lever, center
27	052669	2	BUSHING, rocker, lever, upper

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
28	623146	2	ROD, rear
29	052671	4	PIN, yoke, rear rod
	900806	4	PIN, cotter, 1/8" x 1"
30	623145	2	CLIP, retracting spring
31	658737	2	SPRING, retracting
32	631882	4	BUSHING, rocker lever bracket
33	629252	2	BRACKET ASSEMBLY, rocker lever (Includes item 32)
34	035073	6	CAPSCREW, 1/2"NF x 1-3/4"
	904208	6	LOCKWASHER, 1/2"
35	639459	2	PIN, rocker lever bracket
	910320	4	PIN, cotter, 5/32" x 1-1/2"
36	631881	1	YOKE, shaft bracing
37	638339	1	EYE, shaft bracing yoke
	911051	1	NUT, jam, 1"NF
38	052671	1	PIN, bracing yoke eye
	900806	1	PIN, cotter, 1/8" x 1"
39	631981	1	LEVER ASSEMBLY, operating, parking brake (See page 227 for parts)
40	070469	4	CAPSCREW, 1/2"NF x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
	911043	4	NUT, 1/2"NF
41	068389	1	YOKE, parking brake rod
42	632443	1	ROD, connecting, parking brake lever
43	052671	1	PIN, parking brake lever
	900806	1	PIN, cotter, 1/8" x 1"
44	631974	1	LEVER, parking brake
45	065588	1	CAPSCREW, 1/2"NF x 3-1/2"
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
46	633351	1	BRACKET, mounting, parking brake lever
47	036039	4	CAPSCREW, 3/8"NF x 1-3/8"
	904206	4	LOCKWASHER, 3/8"
	044973	4	WASHER, plain

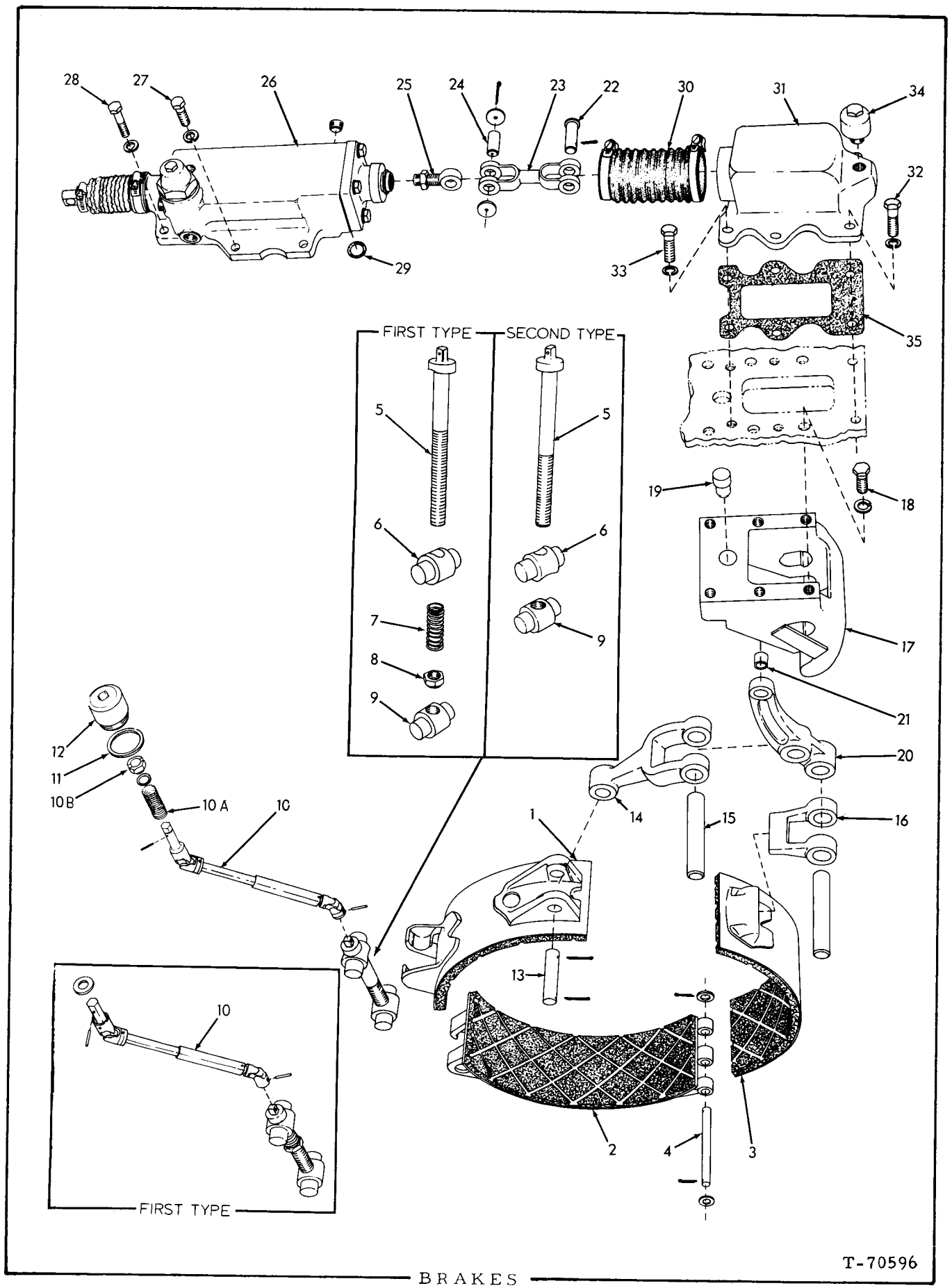
"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



PARKING BRAKE LEVER ASSEMBLY 631981

USAGE: See page 225

ITEM	PART NO.	QTY.	DESCRIPTION
1	637801	1	CAP, adjusting stud
2	637802	1	NUT, cap locking
3	923548	1	O-RING, adjusting stud knob
4	637803	1	LEVER, operating
5	637818	1	STUD, lever adjusting
6	637804	1	TUBE, adjusting stud
7	637819	1	PIN, connecting link
8	637805	1	LINK, connecting
9	637811	1	PIN, clevis
	900818	1	WASHER, plain, U.S. std., 1/2"
	900806	1	PIN, cotter, 1/8" x 1"
10	637808	2	BRACKET, pivot
11	637806	2	SPACER, pivot bracket (3/4" O. D.)
12	637809	2	SPACER, pivot bracket (5/8" O. D.)
13	637810	1	SPACER, pivot bracket (1/2" O. D.)
14	------	1	BRACKET, supporting (Not serviced separately)
15	637817	1	BOLT, pivot bracket (drilled-hd.)(Early units)
	099575	1	CAPSCREW, pivot bracket (Late units)
	919219	1	NUT, elastic stop, thin, 3/8"NF
16	637820	1	PIN, lever locking (Includes chain)
	913533	1	SCREW, thread-cutting, #4 x 1/4" (Early units)
	648406	1	PIN, drive (Late units)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FIRST TYPE
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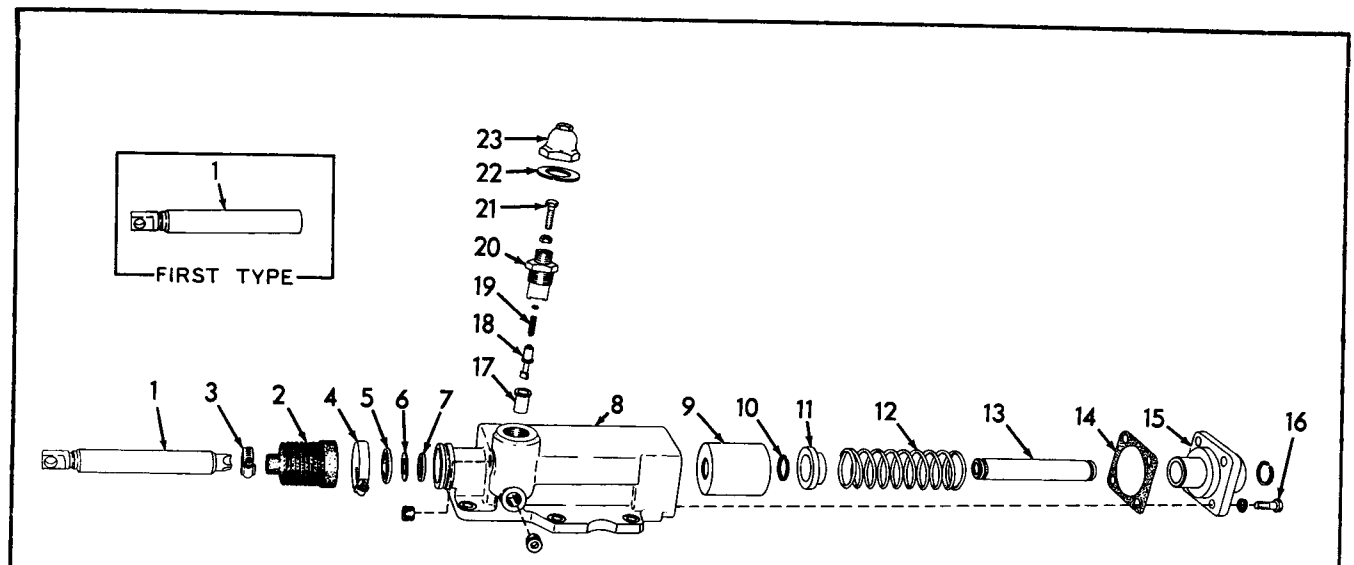
FIRST TYPE
T-70596

ITEM	PART NO.	QTY.	DESCRIPTION
1	637993	2	BAND ASSEMBLY, top section (Includes bonded lining)
2	638002	2	BAND ASSEMBLY, bottom section (Includes bonded lining)
3	637997	2	BAND ASSEMBLY, rear section (Includes bonded lining)
4	623130	2	PIN, band hinge
	912900	4	WASHER, plain
	900806	4	PIN, cotter, 1/8" x 1"
5	623168	2	SCREW, band adjusting (Loaders prior to #14134)
	650276	2	SCREW, band adjusting (Loaders #14134 and up)
6	623181	2	PIN, adjusting screw, upper band (Loaders prior to #14134)
	650275	2	PIN, adjusting screw, upper band (Loaders #14134 and up)
7	623180	2	SPRING, band adjusting screw } Loaders prior to #14134
8	623179	2	NUT, band adjusting screw } Loaders prior to #14134
9	623153	2	PIN, adjusting screw, bottom band
10	623560	2	DRIVE ASSEMBLY, universal, band adjustment (Serviced only as a unit) (Loaders prior to #14134)
	921330	2	PIN, spring, 7/32" x 1-1/8" (lower)
	920335	2	PIN, spring, 5/32" x 1-1/8" (upper)
	910883	2	WASHER, plain, 29/32" x 1-1/2" x .109
	650273	2	DRIVE ASSEMBLY, universal, band adjustment (Serviced only as a unit) (Loaders #14134 and up)
	921330	2	PIN, spring, 7/32" x 1-1/8" (lower)
	921469	2	PIN, spring, 7/32" x 1" (upper)
10A	624193	2	SPRING, band adjustment } Loaders #14134 and up
10B	650274	2	SLEEVE, band adjustment } Loaders #14134 and up
11	623144	2	GASKET, brake adjustment hole plug
12	653773	2	PLUG, brake adjustment hole
13	623132	2	PIN, top band
	900808	4	PIN, cotter, 1/8" x 1-1/2"
14	623133	2	YOKE, brake band, upper
15	623131	4	PIN, band yoke
16	623158	2	YOKE, brake band, lower
17	623182	2	BRACKET ASSEMBLY, band lever (Includes item 19)
18	023465	12	CAPSCREW, 5/8"NF x 1-3/4"
	904209	12	LOCKWASHER, 5/8"
19	643740	2	PIN, band lever bracket
20	623165	2	LEVER ASSEMBLY, band operating (Includes item 21)
21	623164	2	BUSHING, band operating lever

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
22	623139	2	PIN, connecting rod, rear
	910302	2	PIN, cotter, 5/32" x 1-1/4"
23	623140	2	ROD, connecting
24	637729	2	PIN, connecting rod, front
	904003	2	PIN, cotter, 1/8" x 2-1/4"
	637730	4	WASHER, plain
25	638818	2	EYE, connecting
	910847	2	NUT, jam, 3/4"NF
26	638600	2	VALVE ASSEMBLY, operating (Loaders prior to #14331)
	651467	2	VALVE ASSEMBLY, operating (Loaders #14331 and up)
	908944	2	PLUG, pipe, hex-socket, 1/2"NPT
27	035073	8	CAPSCREW, 1/2"NF x 1-3/4"
28	035892	4	CAPSCREW, 1/2"NF x 2-1/2"
	904208	12	LOCKWASHER, 1/2"
29	923575	2	O-RING, valve discharge port
30	623138	2	BOOT, connecting
	921914	4	CLAMP, hose, 2-5/16" x 3-1/4" diam.
31	623137	2	COVER, band linkage
32	035067	4	CAPSCREW, 1/2"NF x 2"
33	070467	8	CAPSCREW, 1/2"NF x 1"
	904208	12	LOCKWASHER, 1/2"
34	622207	2	BREATHER, clutch compartment
35	623136	2	GASKET, band linkage cover

See page 231 for parts



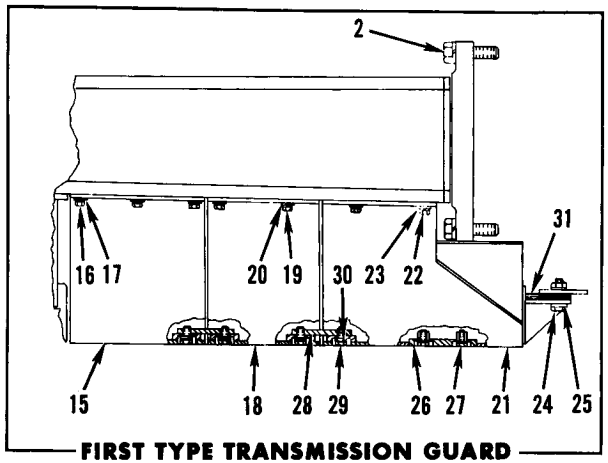
BRAKE VALVE PARTS T-30893

BRAKE VALVE PARTS

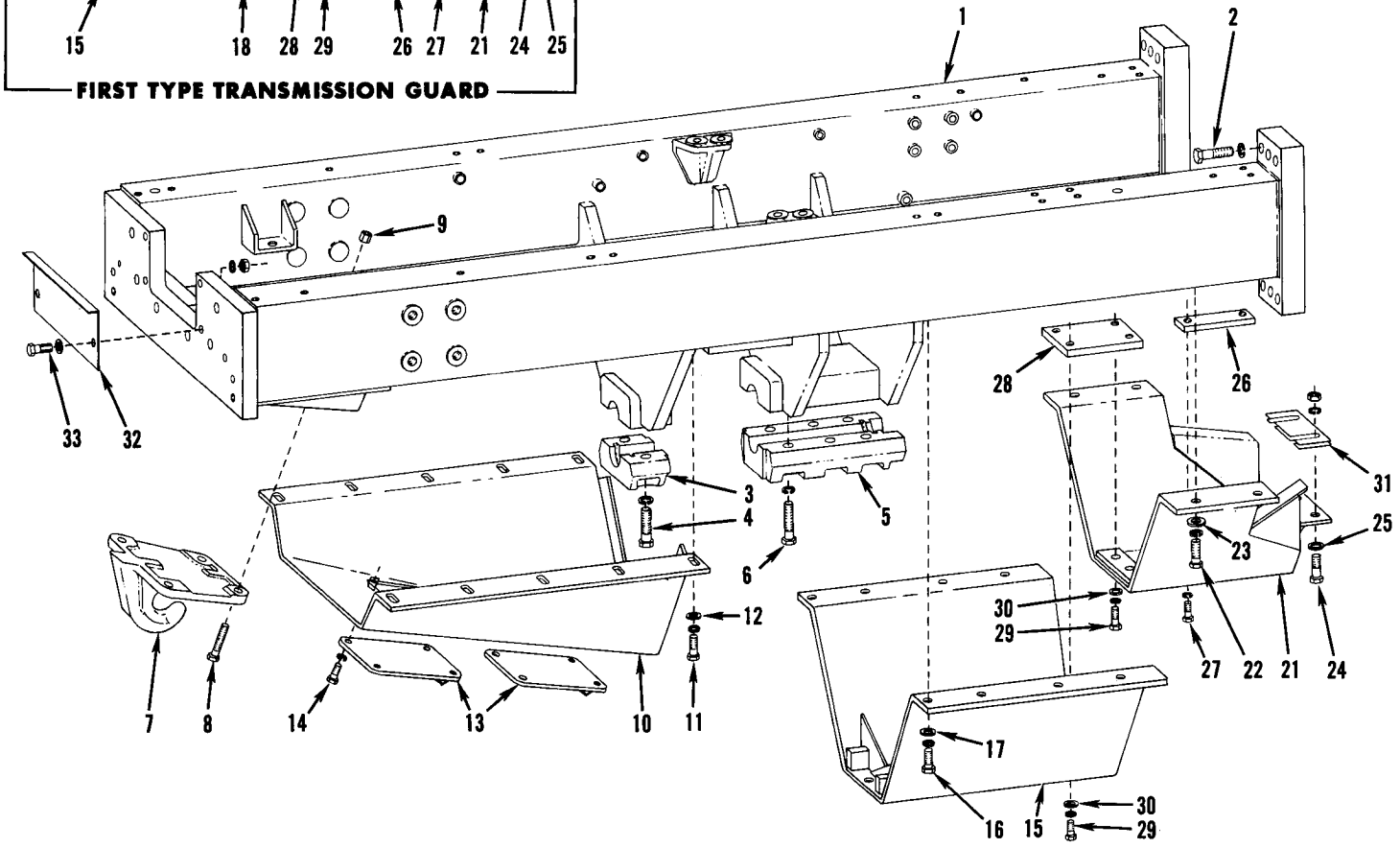
* 638600 VALVE ASSEMBLY
** 651467 VALVE ASSEMBLY

See page 229

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
				NOTE: All quantities are for one (1) Valve Assembly only
1	623194	1	-	SPOOL, valve
	651451	-	1	SPOOL, valve
2	623195	1	1	BOOT, valve spool
3	921913	1	1	CLAMP, hose, 1-13/16" to 2-3/4" diam.
4	921912	1	1	CLAMP, hose, 1-1/16" to 2" diam.
5	623197	1	1	SEAL, outer
6	623489	1	1	WASHER, back-up, inner seal (vellumoid)
7	623198	1	1	SEAL, inner
8	623202	1	1	HOUSING
	908944	2	2	PLUG, pipe, hex-socket-hd., 1/2"NPT
9	623201	1	-	PISTON ASSEMBLY (Includes fulcrum pin)
	651464	-	1	PISTON ASSEMBLY (Includes fulcrum pin)
10	623206	2	2	RING, snap, actuating rod
11	623203	1	1	RETAINER, actuating rod spring
12	623204	1	1	SPRING, actuating rod
13	623207	1	1	ROD, actuating
14	623196	1	1	GASKET, actuating rod retainer
15	623205	1	1	RETAINER, actuating rod
16	614478	4	4	CAPSCREW, 1/2"NF x 1-3/8"
	904208	4	4	LOCKWASHER, 1/2"
17	623211	1	1	SEAT, relief valve
18	628019	1	1	VALVE, relief
19	623210	1	1	SPRING, relief valve
	911982	1	1	WASHER, plain
20	638563	1	1	CAP, relief valve spring
21	638561	1	1	CAPSCREW, pressure adjustment
	911048	1	1	NUT, jam, 3/8"NF
22	641148	1	1	GASKET, cap
23	638562	1	1	CAP, pressure adjustment screw



FIRST TYPE TRANSMISSION GUARD



MAIN FRAME

T-75060

MAIN FRAME

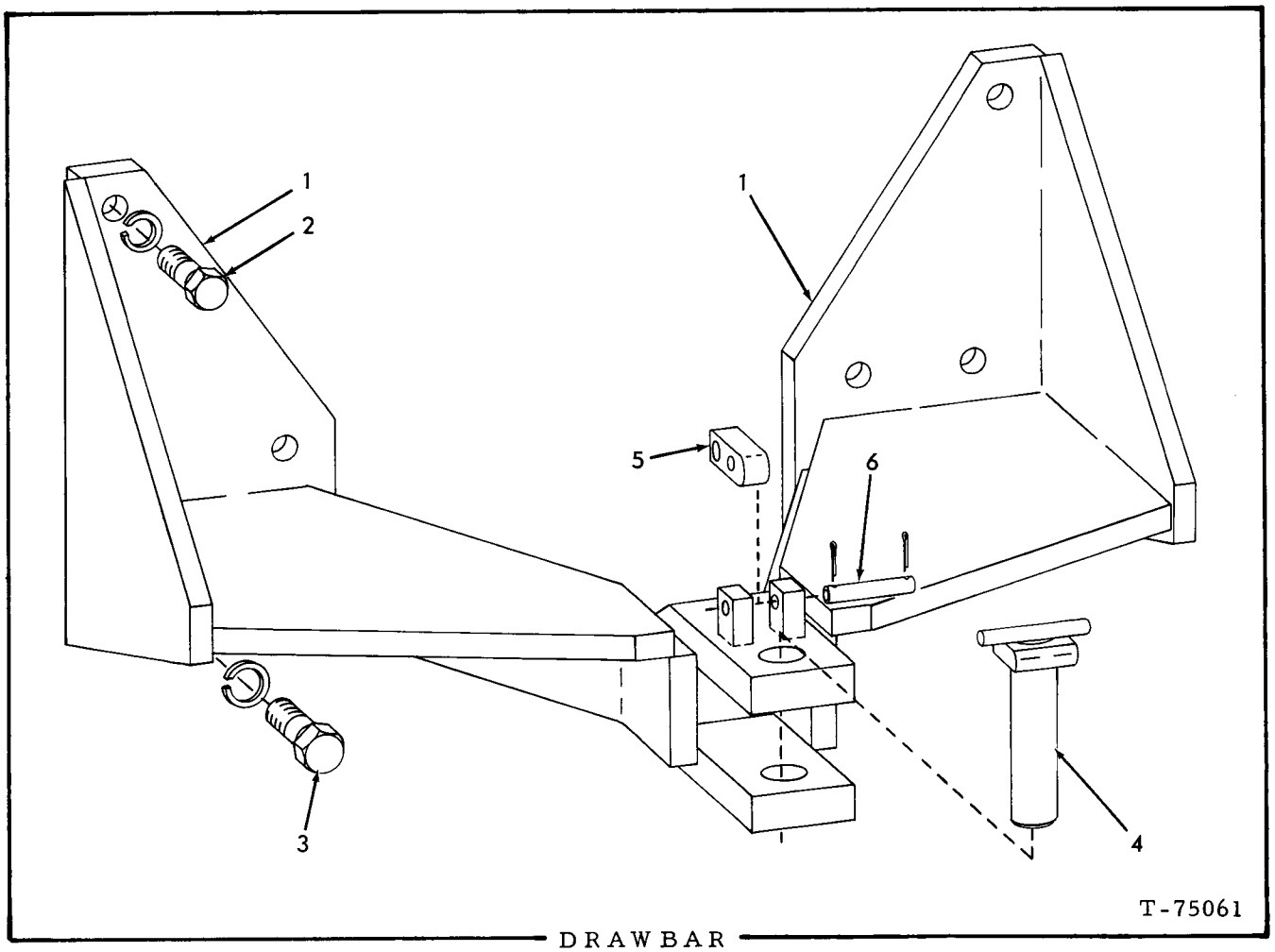
* Loaders prior to serial No. 14005
** Loaders serial No. 14005 and up

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	630390	1	1	FRAME ASSEMBLY (Includes items 3 thru 6)
2	053251	12	12	CAPSCREW, 1-1/4"NF x 4-1/2"
	904210	12	12	LOCKWASHER, 1-1/4"
3	630038	1	1	CAP, spring pivot pin, front
4	031055	2	2	CAPSCREW, 1"NF x 3-3/4"
	910916	2	2	LOCKWASHER, 1"
5	647327	1	1	CAP, spring pivot pin, rear
6	031055	6	6	CAPSCREW, 1"NF x 3-3/4"
	910916	6	6	LOCKWASHER, 1"
7	040503	1	1	HOOK, front pull (Special equipment)
8	013006	4	4	CAPSCREW, 7/8"NF x 3-3/4"
9	070400	4	4	NUT, high, 7/8"NF
10	630018	1	1	GUARD ASSEMBLY, crankcase (Includes items 13 and 14)
11	012453	10	10	CAPSCREW, 3/4"NF x 2"
	904369	10	10	LOCKWASHER, 3/4"
12	061689	10	10	WASHER, plain
13	091634	2	2	PLATE, cover, oil and water drain holes
14	070469	8	8	CAPSCREW, 1/2"NF x 1-1/4"
	904208	8	8	LOCKWASHER, 1/2"
15	640754	1	-	GUARD, transmission, front section
	646549	-	1	GUARD, transmission, front section
16	023465	6	8	CAPSCREW, 5/8"NF x 1-3/4"
	904209	6	8	LOCKWASHER, 5/8"
17	064810	6	8	WASHER, plain
18	640773	1	-	GUARD, transmission, intermediate section
19	023465	4	-	CAPSCREW, 5/8"NF x 1-3/4"
	904209	4	-	LOCKWASHER, 5/8"
20	064810	4	-	WASHER, plain
21	640771	1	-	GUARD ASSEMBLY, transmission, rear section (Each includes items 26 & 27)
	642613	-	1	GUARD ASSEMBLY, transmission, rear section (Each includes items 26 & 27)
22	023465	4	4	CAPSCREW, 5/8"NF x 1-3/4"
	904209	4	4	LOCKWASHER, 5/8"
23	064810	4	4	WASHER, plain
24	012742	2	2	CAPSCREW, 3/4"NF x 2-1/4"
25	061689	2	2	WASHER, plain
	904369	2	2	LOCKWASHER, 3/4"
	911045	2	2	NUT, 3/4"NF
26	629922	1	-	COVER, transmission oil drain
	642633	-	1	COVER, transmission oil drain
27	070467	2	-	CAPSCREW, 1/2"NF x 1"
	070469	-	2	CAPSCREW, 1/2"NF x 1-1/4" (Early units)
	035061	-	2	CAPSCREW, 1/2"NC x 1-1/4 (Late units)
	904208	2	2	LOCKWASHER, 1/2"

(Continued)

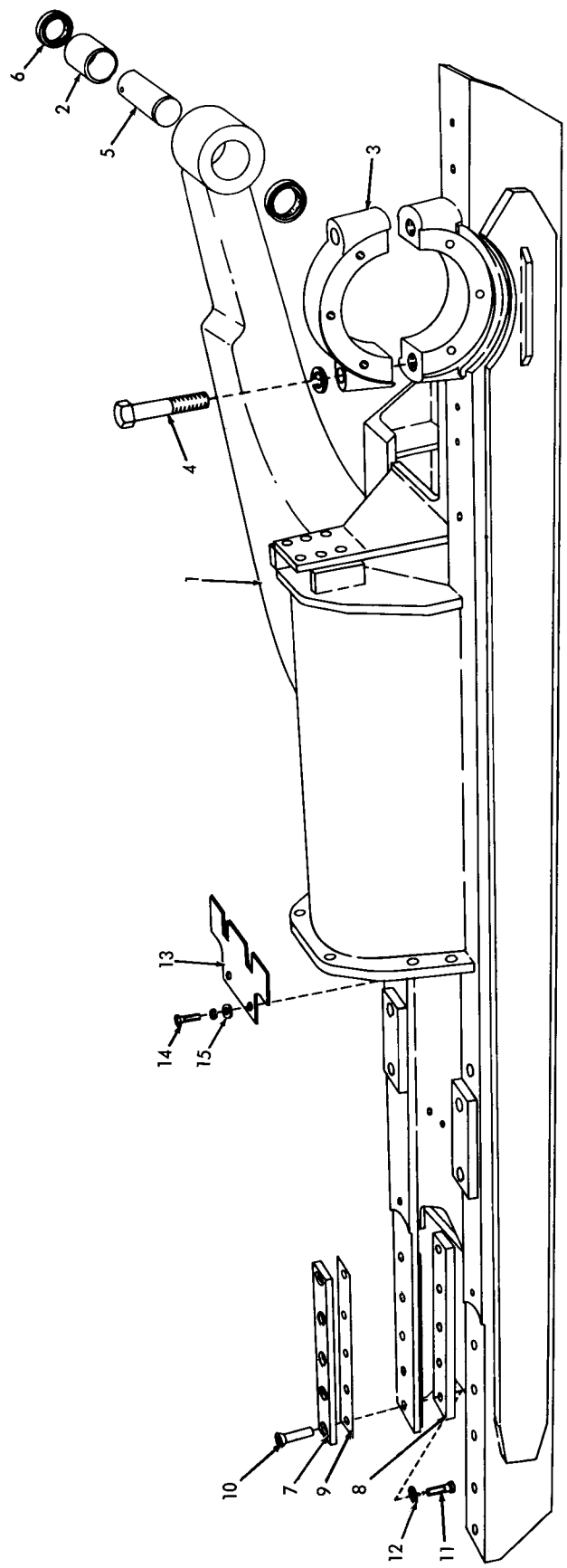
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
28	630039	2	1	PLATE, guard attaching
29	614478	8	4	CAPSCREW, 1/2"NF x 1-3/8"
	904208	8	4	LOCKWASHER, 1/2"
30	064531	8	4	WASHER, plain
31	631959	2	2	SHIM, rear guard (1/16" thick. Use as required)
	631960	2	2	SHIM, rear guard (1/8" thick. Use as required)
32	631187	1	1	PLATE, closure, front
33	070285	2	2	CAPSCREW
	910255	2	2	WASHER, plain, SAE std., 3/4"
	904369	2	2	LOCKWASHER, 3/4"
	911045	2	2	NUT, 3/4"NF

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



DRAWBAR

ITEM	PART NO.	QTY.	DESCRIPTION
1	633969	1	DRAWBAR, supporting
2	052361	6	CAPSCREW, 1-1/4"NF x 4"
	904210	6	LOCKWASHER, 1-1/4"
3	625383	2	CAPSCREW, 1-1/2"NF x 4"
	913077	2	LOCKWASHER, 1-1/2"
4	633967	1	PIN, drawbar
5	629697	1	BLOCK, retaining, drawbar pin
6	629698	1	PIN, retaining block
	900806	2	PIN, cotter, 1/8" x 1"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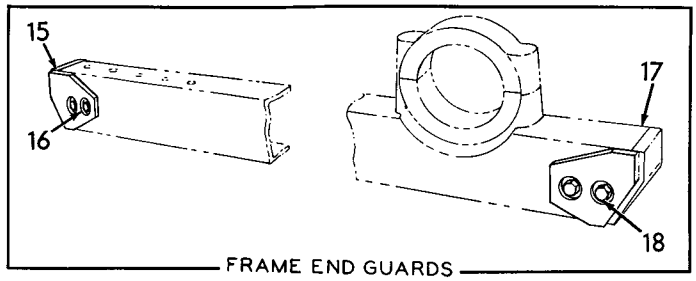
TRACK FRAME

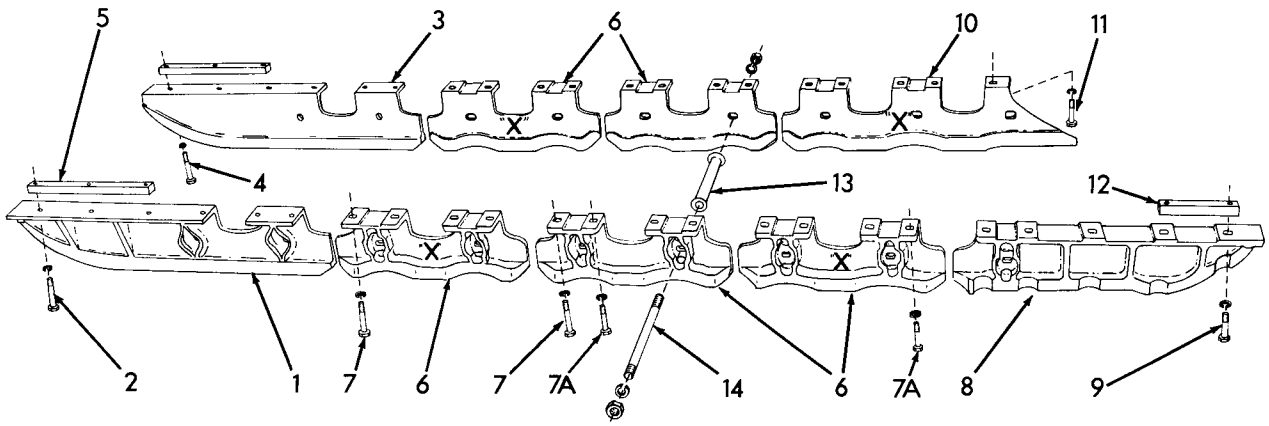
ITEM	PART NO.	QTY.	DESCRIPTION
1	629307	1	FRAME ASSEMBLY, left (Includes items 2 thru 4) } See NOTE below
	629308	1	FRAME ASSEMBLY, right (Includes items 2 thru 4) } See NOTE below
2	052079	2	BUSHING, connecting shaft
3	069810	2	CAP, sprocket shaft bearing
4	052077	4	CAPSCREW, 1-1/4"NF x 6"
	904210	4	LOCKWASHER, 1-1/4"
5	664280	2	SHAFT, connecting
6	622984	4	SEAL, dirt, connecting shaft
7	630624	4	BAR, slide, track idler, upper
8	631704	4	BAR, slide, track idler, lower
9	632575	4	SHIM, upper slide bar (.030" thick. Use as required)
	637601	4	SHIM, upper slide bar (.015" thick. Use as required)
10	631690	20	DOWEL, tapped, track idler slide bar
11	646045	20	CAPSCREW, Nylok, 3/8"NF x 1"
12	647080	20	WASHER, plain
13	622460	2	PLATE, top closure
14	012992	4	CAPSCREW, 3/8"NF x 1-1/4"
	904206	4	LOCKWASHER, 3/8"
15	044973	4	WASHER, plain

NOTE: Track frames are furnished without the shovel frame mounting lugs since these require alignment before welding to the track frame. Lugs and bracing gussets may be ordered separately from page 328.

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



FRAME END GUARDS



GUARDS MARKED "X" ARE SPECIAL EQUIPMENT

T-36229

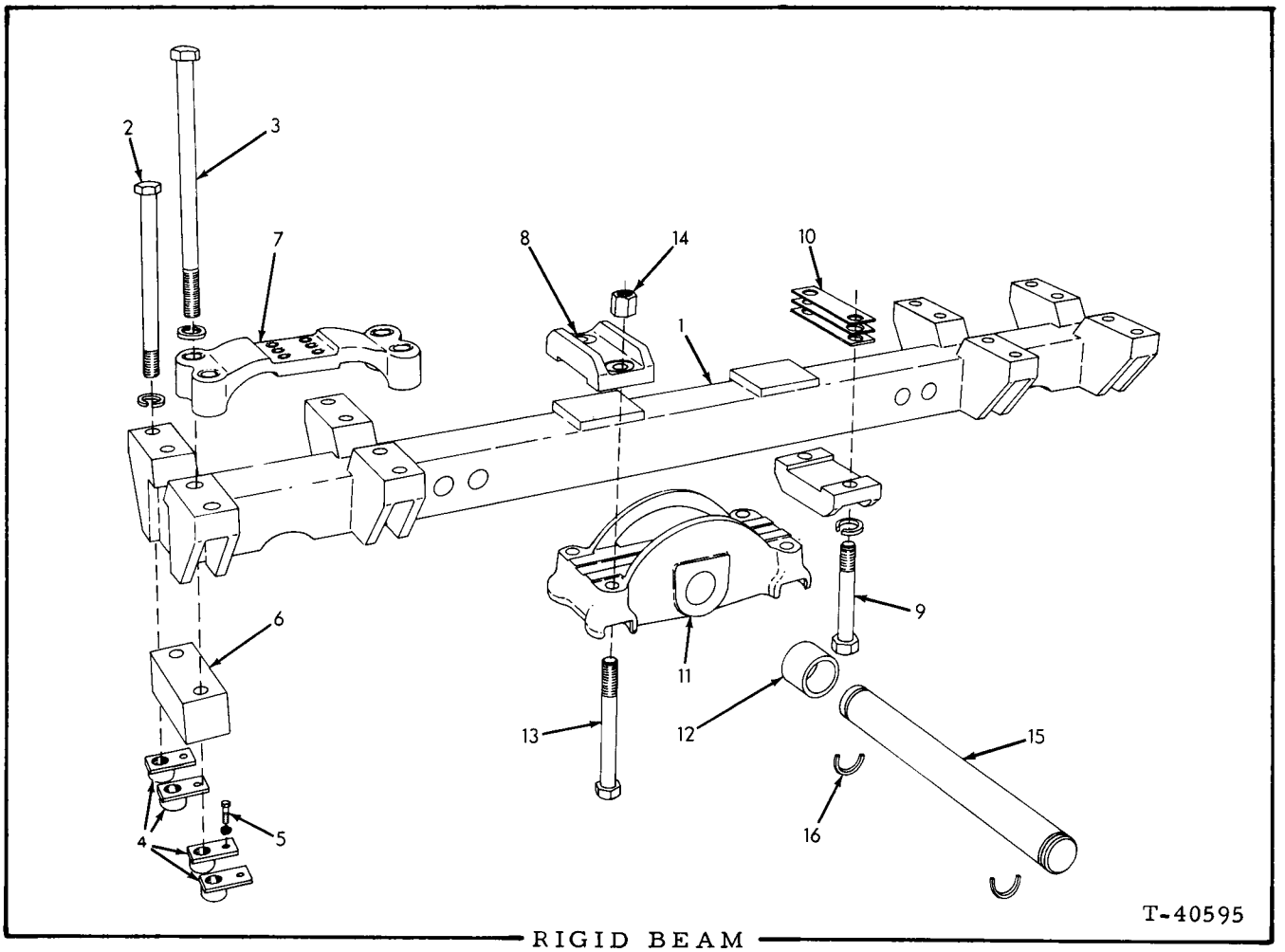
TRACK ROLLER GUARDS

* Partial guarding. Standard equipment
** Full guarding. Special equipment

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	632497	2	2	GUARD, front section, left hand
2	035423	12	12	CAPSCREW, 3/4"NF x 4-1/4"
	904369	12	12	LOCKWASHER, 3/4"
3	632498	2	2	GUARD, front section, right hand
4	035423	12	12	CAPSCREW, 3/4"NF x 4-1/4"
	904369	12	12	LOCKWASHER, 3/4"
5	632553	4	4	BLOCK, tapped, front guard attachment
6	646084	4	10	GUARD, intermediate section
7	035423	4	20	CAPSCREW, 3/4"NF x 4-1/4"
7A	012526	12	20	CAPSCREW, 3/4"NF x 3-1/4"
	904369	16	40	LOCKWASHER, 3/4"
8	665669	1	1	GUARD, rear outer section, left side
	665670	1	1	GUARD, rear outer section, right side
9	012526	10	10	CAPSCREW, 3/4"NF x 3-1/4"
	904369	10	10	LOCKWASHER, 3/4"

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
10	647975	-	1	GUARD rear inner section, left side
	647976	-	1	GUARD, rear inner section, right side
11	012526	-	10	CAPSCREW, 3/4"NF x 3-1/4"
	904369	-	10	LOCKWASHER, 3/4"
12	632350	4	4	BLOCK, tapped, rear outer guard attachment
13	632361	8	18	SPACER guard bracing
14	------	8	18	CAPSCREW guard bracing (1"NF x 15-7/8")(Used prior to loader #14245. Order ROD 650847, 1 LOCKWASHER 910916 and 1 NUT 911047)
	910916	8	18	LOCKWASHER, 1"
	600236	8	18	NUT, high, 1"NF
	650847	8	18	ROD guard bracing (1"NF x 16-3/4")(Effective with loader #14245)
	910916	16	36	LOCKWASHER 1"
	911047	16	36	NUT, 1"NF
15	656795	1	1	GUARD, outer front, left side
	656796	1	1	GUARD outer front, right side
	653733	1	1	GUARD, inner front, left side
	653734	1	1	GUARD, inner front, right side
16	012742	8	8	CAPSCREW, 3/4"NF x 2-1/4"(Early units)
	012453	8	8	CAPSCREW, 3/4"NF x 2" (Late units)
	904369	8	8	LOCKWASHER, 3/4"
	911045	8	8	NUT, 3/4"NF
17	656795	1	1	GUARD rear, left side
	656796	1	1	GUARD, rear, right side
18	012742	4	4	CAPSCREW, 3/4"NF x 2-1/4" (Early units)
	012453	4	4	CAPSCREW, 3/4"NF x 2" (Late units)
	904369	4	4	LOCKWASHER, 3/4"
	911045	4	4	NUT, 3/4"NF

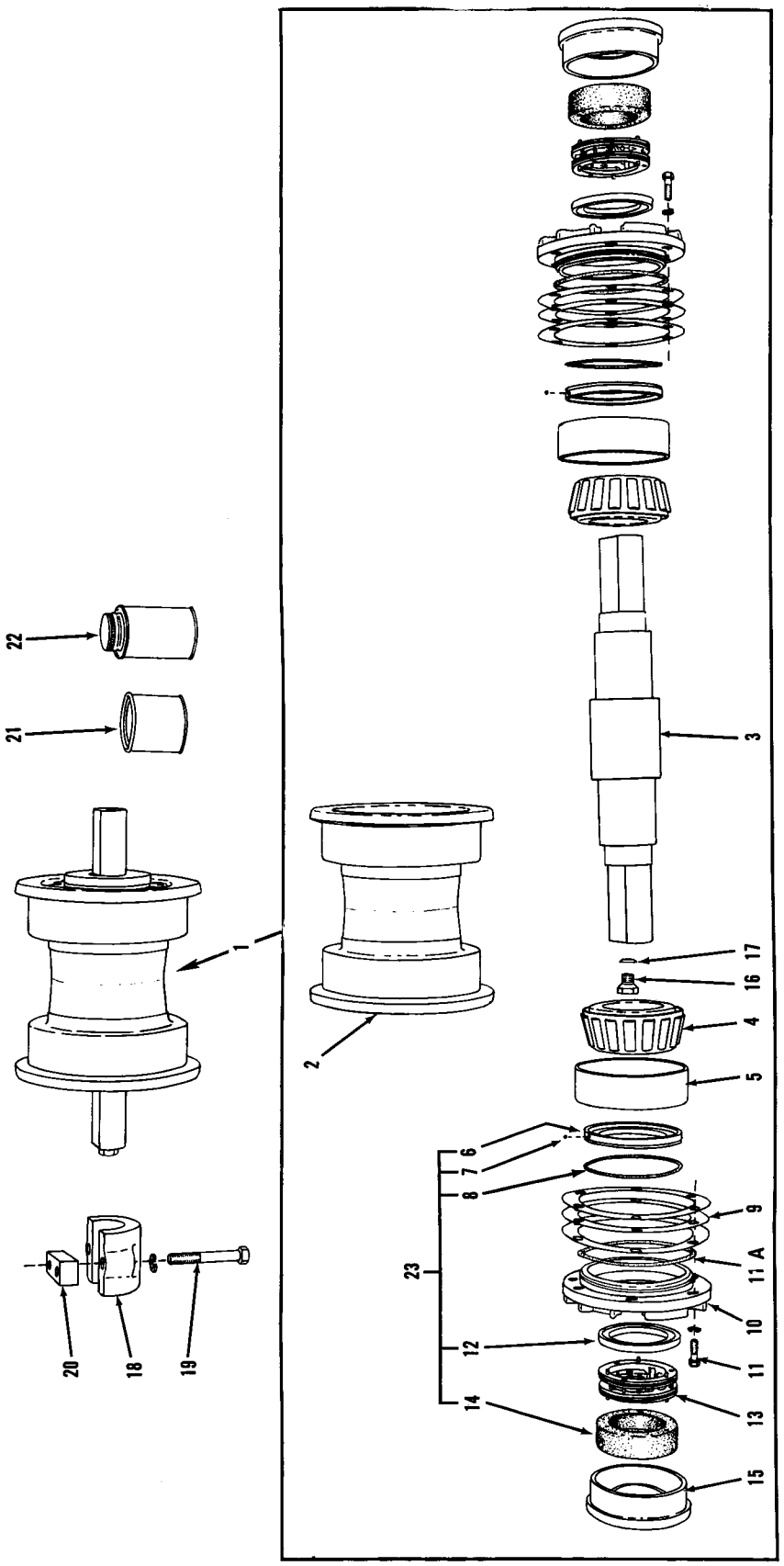


RIGID BEAM

ITEM	PART NO.	QTY.	DESCRIPTION
1	622485	1	BEAM, rigid
2	622488	8	CAPSCREW, 1-1/4"NF x 16-3/4"
3	622489	8	CAPSCREW, 1-1/4"NF x 20-7/8"
	904210	16	LOCKWASHER, 1-1/4"
4	629300	16	BLOCK, tapped
5	035018	16	CAPSCREW, 1/2"NF x 1-1/2"
	904208	16	LOCKWASHER, 1/2"
6	622483	4	BLOCK, beam spacing
7	630995	1	BRACKET, mounting, front track supporting roller, left side
	630996	1	BRACKET, mounting, front track supporting roller, right side
8	052264	4	SADDLE, bolt
9	630412	4	CAPSCREW, beam to main frame (1-1/2"NF x 10-1/2")
	913077	4	LOCKWASHER, 1-1/2"
10	073396	2	SHIM, spacing (1/16" thick. Use as req'd)
	073397	6	SHIM, spacing (1/8" thick. Use as req'd)
	073398	2	SHIM, spacing (1/4" thick. Use as req'd)

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
11	065860	1	SADDLE ASSEMBLY (Includes item 12)
12	052256	2	BUSHING, saddle
13	065862	4	CAPSCREW, saddle (1-1/2"NF x 13-1/4")
14	052263	4	NUT, high, 1-1/2"NF
15	630032	1	PIN, beam saddle
16	630302	2	RING, retaining, beam saddle pin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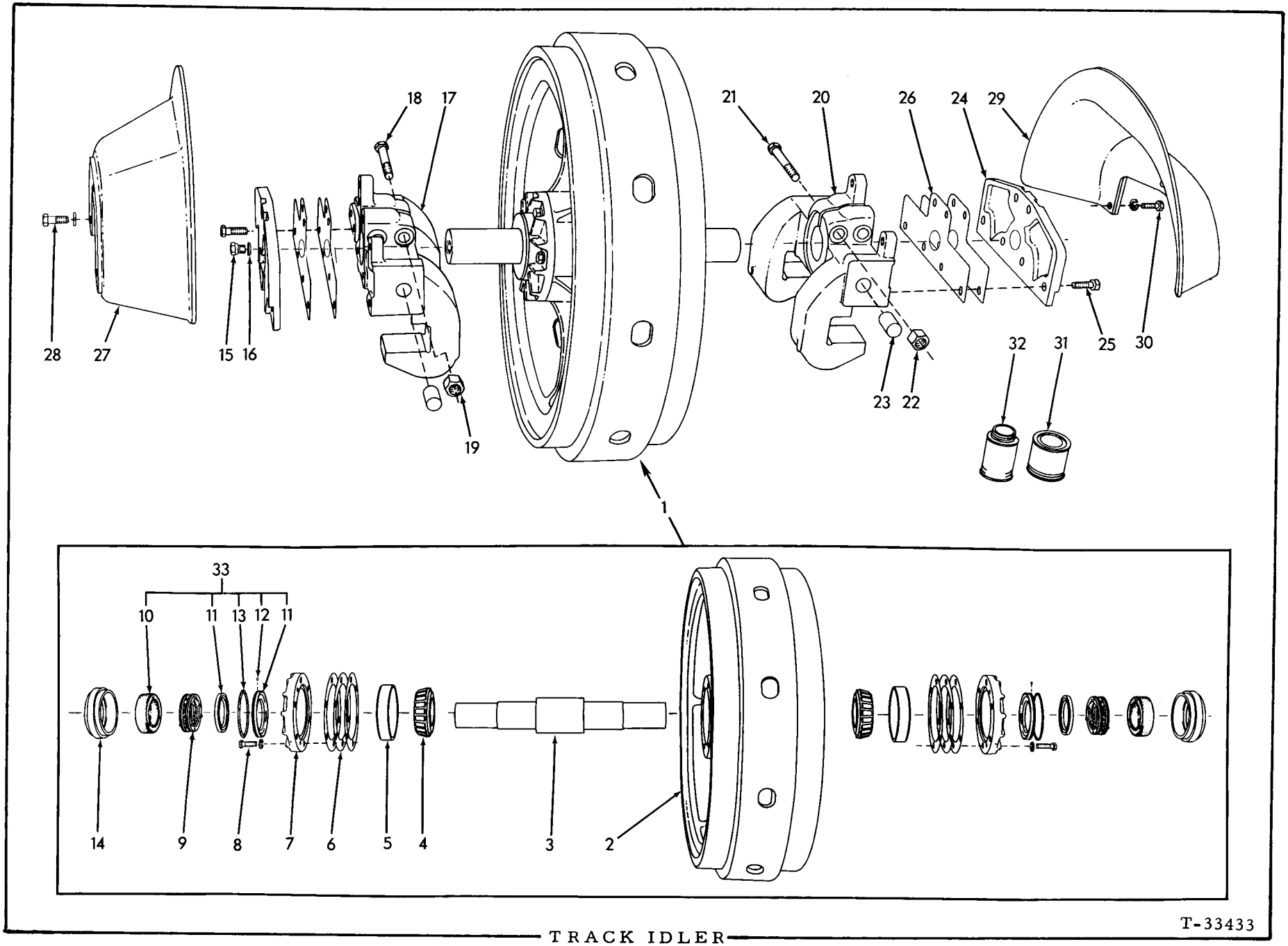
TRACK ROLLERS

* Model 21G
** Model 21GS

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	622296	1	-	ROLLER ASSEMBLY (Conissts of items 2 thru 15)
	667653	-	1	ROLLER ASSEMBLY (Consists of items 2 thru 17)
2	076301	1	1	WHEEL, single flange
3	622437	1	-	SHAFT
	648457	-	1	SHAFT
4	076296	2	2	CONE ASSEMBLY, bearing
5	604398	2	2	CUP, bearing
6	622197	2	2	□RING, seal, inner
7	905357	2	2	□BALL, steel, 3/16" diam.
8	923822	2	2	□O-RING, seal ring
9	655470	4	4	SHIM, bearing adjustment (.003" thick) — Use as required
	648748	2	2	SHIM, bearing adjustment (.005" thick) — Use as required
	076294	4	4	SHIM, bearing adjustment (.007" thick) — Use as required
	076293	4	4	SHIM, bearing adjustment (.010" thick) — Use as required
	076292	2	2	SHIM, bearing adjustment (.032" thick) — Use as required
10	076299	2	2	RETAINER, bearing (Loaders prior to #)
	667600	2	2	RETAINER, bearing (Loaders # and up)
11	913105	12	12	CAPSCREW, 1/2"NF x 1-1/2"
	904208	12	12	LOCKWASHER, 1/2"
11A	923932	2	2	O-RING, bearing retainer (Loaders # and up)
12	051623	2	2	□RING, seal, outer
13	051959	2	2	SPRING ASSEMBLY, seal (Serviced only as a unit)
14	622295	2	-	□BOOT, seal spring
	666587	-	2	BOOT, seal spring
15	076298	2	2	RETAINER, seal
16	034042	-	1	PLUG, shaft oil hole
17	034043	-	1	GASKET, oil hole plug
18	098744	2	2	BRACKET, attaching
19	085026	4	4	CAPSCREW, 7/8"NF x 4-1/2" (rear wheels)
	622557	4	4	CAPSCREW, 7/8"NF x 5-1/2" (front wheels)
	905347	4	4	LOCKWASHER, 7/8"
20	098730	4	4	BLOCK, tapped, attaching capscrews
	912203	4	4	CAPSCREW, 3/4"NF x 2-1/2" (rear) — Not used when track frame guards are installed
	052527	4	4	CAPSCREW, 3/4"NF x 3-1/2" (front) — Not used when track frame guards are installed
	904369	4	4	LOCKWASHER, 3/4" — Not used when track frame guards are installed
21	033288	-	-	CEMENT, neoprene, 1/2 pint can — For cementing Seal Boots
22	054890	-	-	SOLVENT, neoprene cement, 1/2 pint can — For cementing Seal Boots
23	630031	1	-	SEAL KIT, (Includes parts for one (1) wheel only; items 6, 7, 8, 12 and 14)

□Components of item 23

NOTE: All quantities indicated above are for one (1) wheel only. The number of wheels used is 16.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T-33433

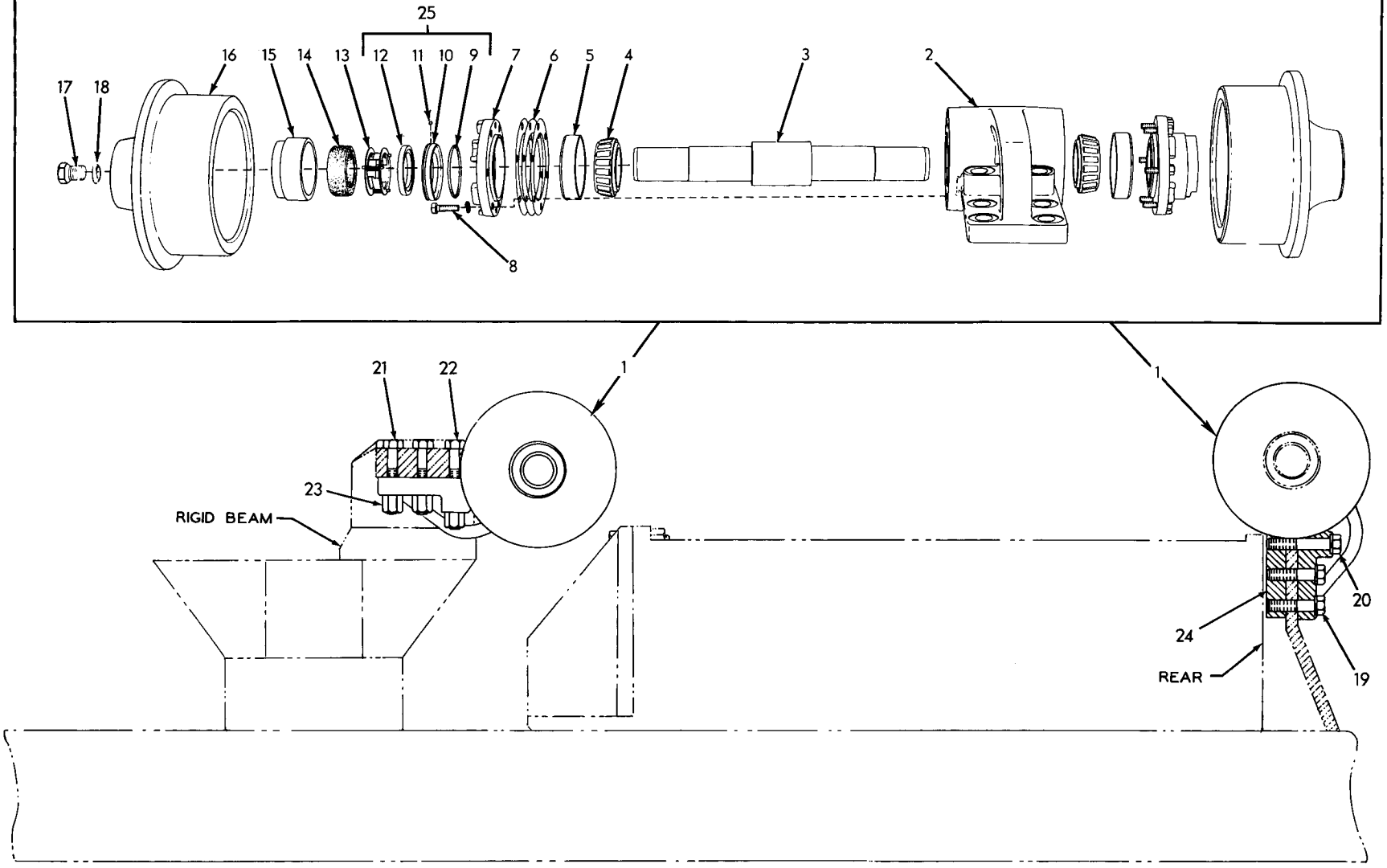
TRACK IDLER

TRACK IDLER

* Model 21G
** Model 21GS

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	630411	2	-	IDLER ASSEMBLY, track (Consists of items 2 thru 14)
	648609	-	2	IDLER ASSEMBLY, track (Consists of items 2 thru 16)
2	622649	2	2	IDLER only
3	630361	2	-	SHAFT
	648504	-	2	SHAFT
4	076296	4	4	CONE ASSEMBLY, bearing
5	630345	4	4	CUP, bearing
6	051614	6	6	SHIM, bearing adjustment (.032" thick) — Use as required
	051615	6	6	SHIM, bearing adjustment (.010" thick) — Use as required
	051616	6	6	SHIM, bearing adjustment (.007" thick) — Use as required
	655548	8	8	SHIM, bearing adjustment (.003" thick) — Use as required
7	622202	4	4	RETAINER, bearing
8	023465	24	24	CAPSCREW, 5/8"NF x 1-3/4"
	904209	24	24	LOCKWASHER, 5/8"
9	051959	4	4	SPRING ASSEMBLY, seal (Serviced only as a unit)
10	051629	4	-	□BOOT, seal
	666587	-	4	BOOT, seal
11	622197	4	4	□RING, seal inner
	051623	4	4	□RING, seal, outer
12	905357	4	4	□BALL, steel, 3/16" diam.
13	076295	4	4	□O-RING, seal ring
14	622199	4	4	RETAINER, seal follower
15	034042	-	2	PLUG, shaft oil hole
16	034043	-	2	GASKET, oil hole plug
17	622545	2	2	BRACKET ASSEMBLY, left (Includes item 23)
18	051634	4	4	CAPSCREW, 3/4"NF x 5-3/4"
19	012767	4	4	NUT, high, 3/4"NF
20	622546	2	2	BRACKET ASSEMBLY, right (Includes item 23)
21	051634	4	4	CAPSCREW, 3/4"NF x 5-3/4"
22	012767	4	4	NUT, high, 3/4"NF
23	051647	4	4	PIN, dowel, idler bracket
24	637636	4	4	PLATE, guide
25	023465	24	24	CAPSCREW, 5/8"NF x 1-3/4"
26	051640	8	8	SHIM, guide plate (.062" thick. Use as req'd)
	051643	8	8	SHIM, guide plate (.031" thick. Use as req'd)
27	084997	2	2	GUARD, left — Special Equipment
28	035229	6	6	CAPSCREW, 5/8"NF x 2" — Special Equipment
	904209	6	6	LOCKWASHER, 5/8" — Special Equipment
29	084998	2	2	GUARD, right — Special Equipment
30	035229	6	6	CAPSCREW, 5/8"NF x 2" — Special Equipment
	904209	6	6	LOCKWASHER, 5/8" — Special Equipment
31	033288	-	-	CEMENT, neoprene, 1/2 pint can — For cementing Seal Boots
32	054890	-	-	SOLVENT, neoprene, 1/2 pint can — For cementing Seal Boots
33	622234	2	-	SEAL KIT (Includes parts for one (1) idler only, items 10 thru 13)

□ Components of item 33



TRACK CARRIER ROLLERS

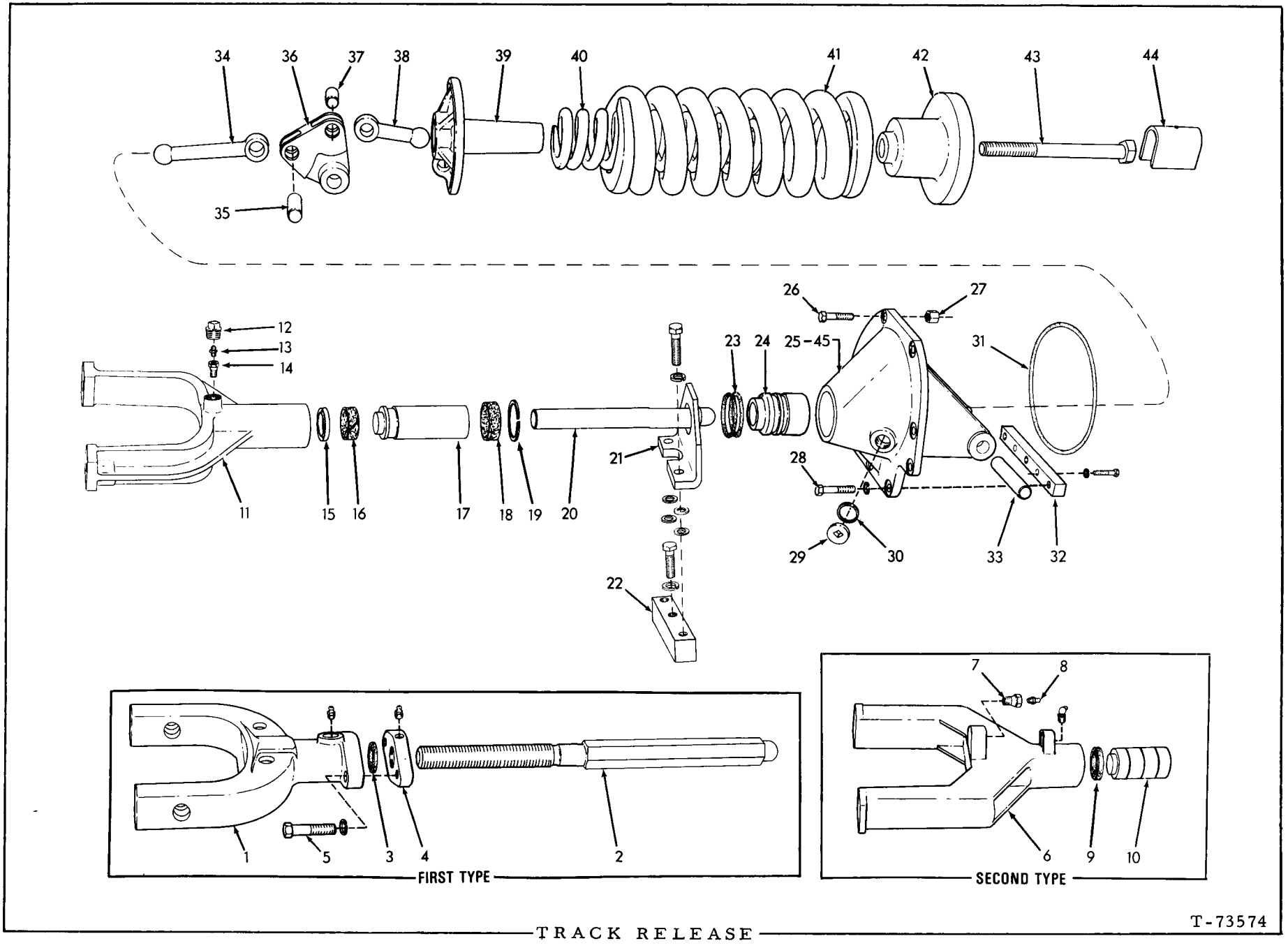
T-40598

TRACK CARRIER ROLLERS

* Model 21G
** Model 21GS

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	623890	4	-	ROLLER ASSEMBLY (Consists of items 2 thru 16)
1	649889	-	2	ROLLER ASSEMBLY, right front or left rear } Each includes items 2 thru 18
1	649890	-	2	ROLLER ASSEMBLY, left front or right rear } Each includes items 2 thru 18
2	077504	4	4	BRACKET
3	623827	4	-	SHAFT
3	648519	-	4	SHAFT
4	043491	8	8	CONE ASSEMBLY, bearing
5	659149	8	8	CUP, bearing
6	655502	16	16	SHIM, bearing adjustment (.003" thick) } Use as required
6	051803	16	16	SHIM, bearing adjustment (.007" thick) } Use as required
6	051804	16	16	SHIM, bearing adjustment (.010" thick) } Use as required
6	051805	16	16	SHIM, bearing adjustment (.032" thick) } Use as required
7	628806	8	8	RETAINER, bearing
8	013058	48	48	CAPSCREW, 3/8"NC x 1-1/4"
	904206	48	48	LOCKWASHER, 3/8"
9	073029	8	8	□O-RING, seal packing
10	073027	8	8	□RING, seal, inner
11	905357	8	8	□BALL, steel, 3/16" diam.
12	621283	8	8	□RING, seal, outer
13	048666	8	8	SPRING ASSEMBLY, seal (Serviced only as a unit)
14	048665	8	8	BOOT, seal spring
15	073634	8	8	RETAINER, seal
16	623829	8	8	ROLLER
17	034042	-	4	PLUG, shaft oil hole
18	034043	-	4	GASKET, oil hole plug
19	012526	8	8	CAPSCREW, rear roller (3/4"NF x 3-1/4")
	904369	8	8	LOCKWASHER, 3/4"
20	035423	4	4	CAPSCREW, rear roller (3/4"NF x 4-1/4"
	904369	4	4	LOCKWASHER, 3/4"
21	035422	8	8	CAPSCREW, front roller (3/4"NF x 4")
22	604930	4	4	CAPSCREW, front roller (3/4"NF x 5")
23	012767	12	12	NUT, front roller capscrews (high, 3/4"NF)
24	078082	4	4	BLOCK, tapped, attaching capscrews (3/4"NF)
25	078941	4	-	SEAL KIT (Includes parts for one (1) roller assembly only, items 9 thru 12)

□Components of item 25



TRACK RELEASE

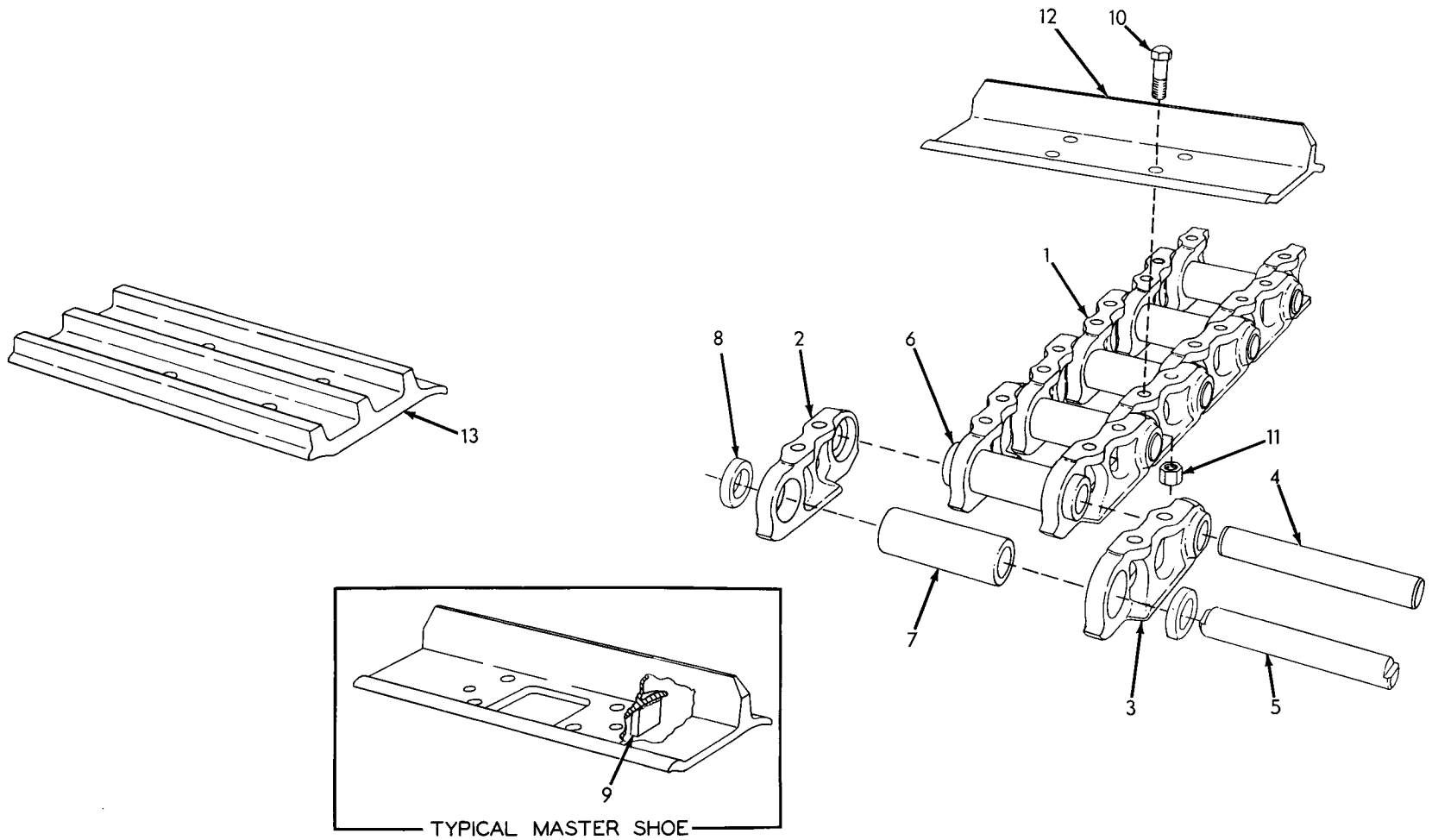
TRACK RELEASE

* Mechanical adjustment. Standard on loaders prior to serial No. 14331.
** Mechanical adjustment. Standard on Model 21G loaders serial No. 14331 thru 14576; also standard on Model 21GS loaders S/N 14331 and up.
△ Hydraulic adjustment. Standard on Model 21G loaders serial No. 14577 thru 15074.
△△ Hydraulic adjustment. Standard on Model 21G loaders serial No. 15075 and up.

ITEM	PART NO.	QUANTITY *	**	△	△△	DESCRIPTION
1	086922	2	2	-	-	YOKE
	914465	2	2	-	-	FITTING, lubricating, straight, 1/8"NPT
2	095286	2	2	-	-	SCREW, adjustment (2-1/2" hex)
3	066066	2	2	-	-	SEAL, protecting, adjustment screw threads (rubber)
4	051787	2	2	-	-	LOCK, adjustment screw
	914465	2	2	-	-	FITTING, lubricating, straight, 1/8"NPT
5	012586	4	4	-	-	CAPSCREW, 1"NF x 3-1/2"
	910916	4	4	-	-	LOCKWASHER, 1"
6	624208	-	-	2	-	YOKE ASSEMBLY (Includes items 7 thru 10 and FITTINGS indented below)
	915275	-	-	2	-	FITTING, lubricating, 65°, 1/8"NPT
7	628915	-	-	2	-	VALVE ASSEMBLY, relief (serviced only as a unit)
8	666407	-	-	2	-	FITTING, pressurizing
9	628914	-	-	2	-	SEAL, piston
10	628913	-	-	2	-	PISTON, adjusting
11	665110	-	-	-	2	YOKE ASSEMBLY (Includes items 12 thru 19)
12	666367	-	-	-	2	PLUG, yoke
13	666407	-	-	-	2	FITTING, pressurizing
14	628915	-	-	-	2	VALVE ASSEMBLY, check (Serviced only as a unit)
15	628914	-	-	-	2	SEAL, piston
16	665114	-	-	-	2	RING wear, adjusting piston
17	665113	-	-	-	2	PISTON, adjusting
18	665115	-	-	-	2	RING, wear, release yoke
19	3045326	-	-	-	2	RING, snap
20	628164	-	-	2	-	BAR, push (34-1/2" long)
	666605	-	-	-	2	BAR, push (31" long)
21	629297	2	2	2	2	BRACKET, supporting, adjustment screw
	911100	8	8	8	8	WASHER, plain, SAE std., 5/8" (Use as required)
	023618	4	4	4	4	CAPSCREW, 5/8"NF x 2-1/2"
	904209	4	4	4	4	LOCKWASHER, 5/8"

(Continued)

ITEM	PART NO.	QUANTITY *	**	Δ	ΔΔ	DESCRIPTION
22	629298	2	2	2	2	BLOCK, tapped
	035229	2	2	2	2	CAPSCREW, 5/8"NF x 2"
	904209	2	2	2	2	LOCKWASHER, 5/8"
23	923831	4	4	4	4	O-RING, crosshead
24	621204	2	2	2	2	CROSSHEAD
25	------	2	-	-	-	GUIDE, crosshead (Order item 45)
	649761	-	2	2	2	GUIDE, crosshead
26	012984	12	12	12	12	CAPSCREW, 3/4"NF x 2-3/4"
27	012767	12	12	12	12	NUT, high, 3/4"NF
28	012526	6	6	6	6	CAPSCREW, 3/4"NF x 3"
	904369	6	6	6	6	LOCKWASHER, 3/4"
29	035250	4	4	4	4	PLUG, crosshead guide filling hole
30	667252	4	4	4	4	GASKET, crosshead guide filling hole plug
31	926178	2	2	2	2	O-RING, crosshead guide
32	051812	2	2	2	2	BLOCK, tapped, crosshead guide mounting
	035712	4	4	4	4	CAPSCREW, 1/2"NC x 2-1/4"
	904208	4	4	4	4	LOCKWASHER, 1/2"
33	051799	2	2	2	2	PIN, bellcrank pivot
34	051797	2	-	-	-	ROD, push, front
	649765	-	2	2	2	ROD, push, front
35	051798	2	-	-	-	PIN, front push rod (1-1/4" diam.)
	649763	-	2	2	2	PIN, front push rod (1-11/32" diam.)
36	066062	2	-	-	-	BELLCRANK
	649762	-	2	2	2	BELLCRANK
37	051798	2	-	-	-	PIN, rear push rod (1-1/4" diam.)
	649763	-	2	2	2	PIN, rear push rod (1-11/32" diam.)
38	051796	2	-	-	-	ROD, push, rear
	649764	-	2	2	2	ROD, push, rear
39	051790	2	2	2	2	PLUNGER, spring
40	059179	2	2	2	2	SPRING, inner
41	051800	2	2	2	2	SPRING, outer
42	095529	2	2	2	2	SEAT, spring
43	064819	2	2	2	2	CAPSCREW, spring adjustment
44	051795	2	2	2	2	LOCK, spring adjustment capscrew
45	649766	-	2	2	2	GUIDE ASSEMBLY, crosshead (Consists of items 25 and 33 thru 38)



T-36246

TRACK (First type)

TRACK

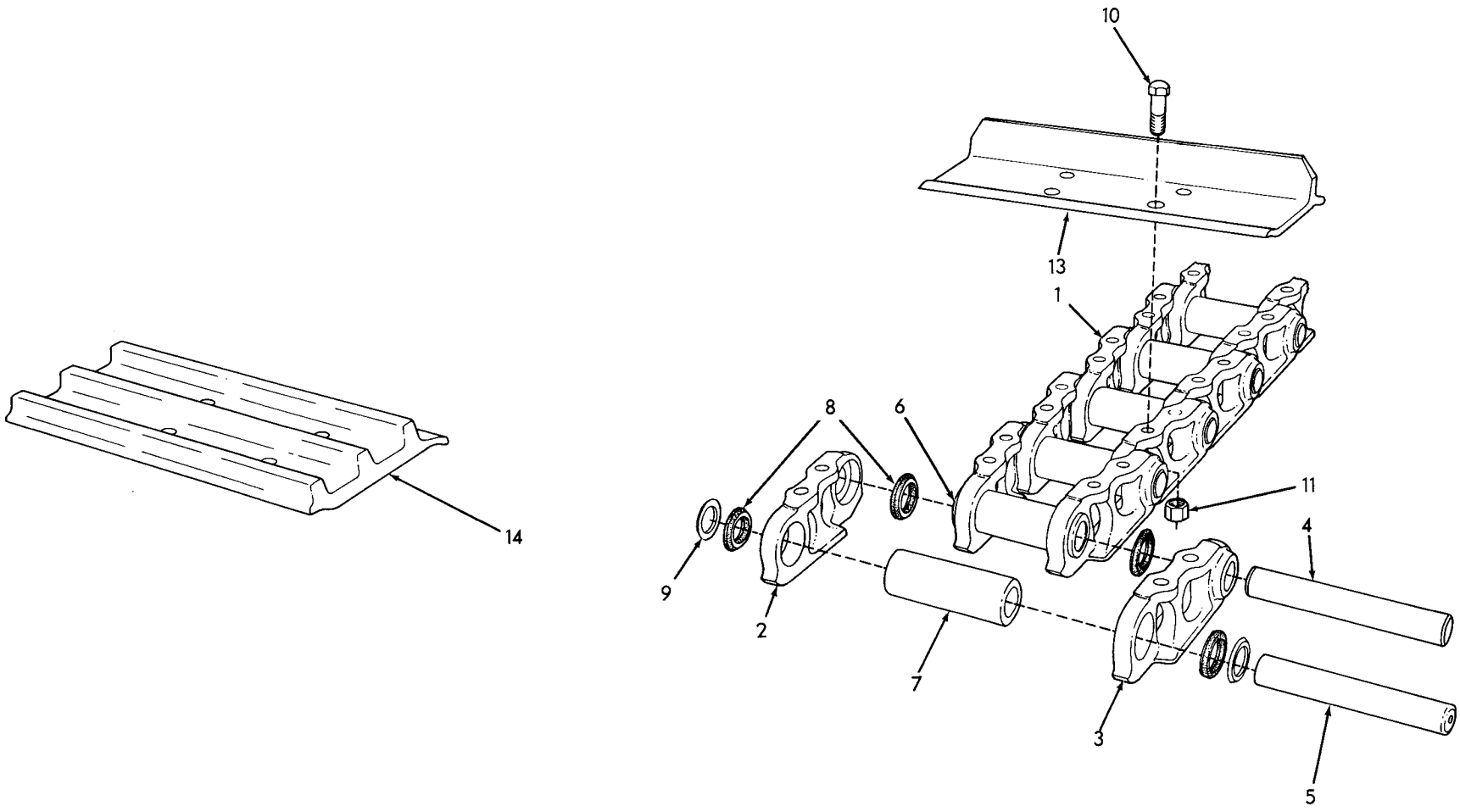
USAGE: Model 21G loaders prior to serial No. 13901.

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	2	RAIL ASSEMBLY (42 links)(Order RAIL ASSEMBLY 647468)
2	631389	82	BAR, left
	631395	2	BAR, master, left
3	631390	82	BAR, right
	631396	2	BAR, master, right
4	079601	82	PIN
5	629794	2	PIN, master
6	663083	82	BUSHING (9-1/8" long)
7	645768	2	BUSHING, master (7-3/4" long)
8	631397	4	SPACER, master bushing
9	630208	2	BLOCK KIT, master pin retaining (Each consists of 2 BLOCKS and welding instructions. Use to convert standard shoe to master shoe)
10	097056	336	BOLT, track shoe (2-5/8" long)(For use with full grouser shoe only)
	097053	336	BOLT, track shoe (2-15/16" long)(For use with semi-grouser shoes only)
11	083544	336	NUT, track shoe bolt (high)

			TRACK SHOES	COMPLETE TRACK ASSEMBLIES WITH SHOES (2 Required)
12	623379	42	SHOE, grouser, left side, 22"	647595
	623380	42	SHOE, grouser, right side, 22"	647596
13	648083	84	SHOE, semi-grouser, 18"	651767
	082165	42	SHOE, semi-grouser, left side, 22"	647221
	082166	42	SHOE, semi-grouser, right side, 22"	647222

NOTE: TRACK ASSEMBLIES listed above are of the latest design (sealed-type) as shown on page 255.

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



T-71229

TRACK (Second type)

TRACK

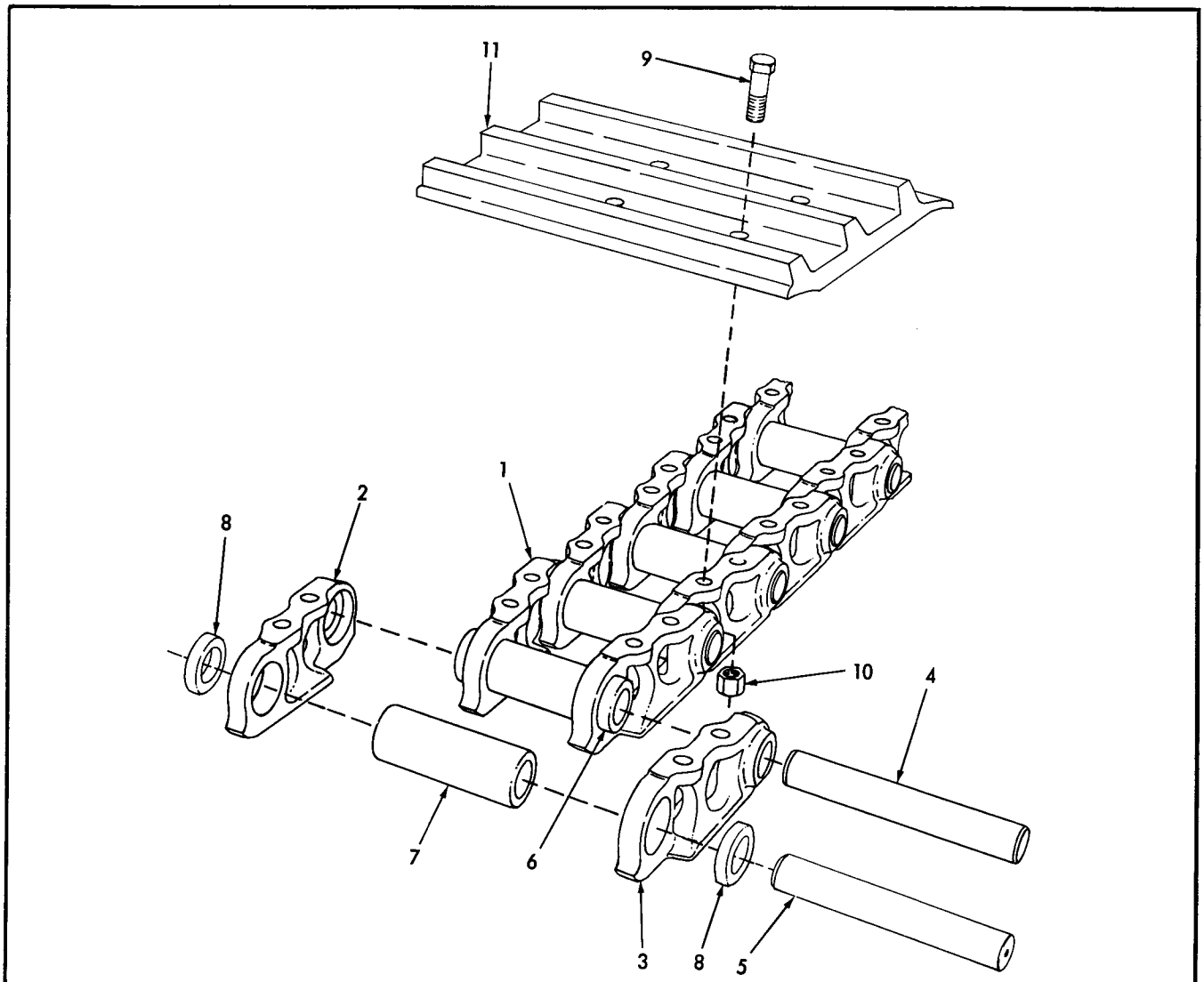
(Sealed type)

USAGE: Model 21G loaders serial No. 13901 and up.

ITEM	PART NO.	QTY.	DESCRIPTION
1	647468	2	RAIL ASSEMBLY (42 links)(Consists of items 2 thru 9)
2	631389	84	BAR, left
3	631390	84	BAR, right
4	079601	82	PIN
5	621294	2	PIN, master
6	645783	82	BUSHING (8-5/16" long)
7	645768	2	BUSHING, master (7-3/4" long)
8	645784	168	SEAL
9	648647	4	RING, spacing, master pin seal
10	097056	336	BOLT, track shoe (2-5/8" long)(For use with full grouser shoe only)
	097053	336	BOLT, track shoe (2-15/16" long)(For use with semi-grouser shoes only)
11	083544	336	NUT, track shoe bolt

			TRACK SHOES	COMPLETE TRACK ASSEMBLIES WITH SHOES (2 Required)
13	623379	42	SHOE, grouser, left side, 22"	647595
	623380	42	SHOE, grouser, right side, 22"	647596
14	648083	84	SHOE, semi-grouser, 18"	651767 *648539
	082165	42	SHOE, semi-grouser, left side, 22"	647221 *647601
	082166	42	SHOE, semi-grouser, right side, 22"	647222 *647602

*These track assemblies have shoes welded to the rails for extreme service applications.



TRACK T-36246

USAGE: Model 21GS only

ITEM	PART NO.	QTY.	DESCRIPTION
1	648644	2	RAIL ASSEMBLY (42 links)(Consists of items 2 thru 8)
2	631389	84	BAR, left
3	631390	84	BAR, right
4	079601	82	PIN
5	621294	2	PIN, master
6	663083	82	BUSHING (9-1/8" long)
7	645768	2	BUSHING, master (7-3/4" long)
8	631397	4	SPACER, master bushing

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
9	097053	336	BOLT, track shoe
10	083544	336	NUT, track shoe bolt

TRACK SHOES

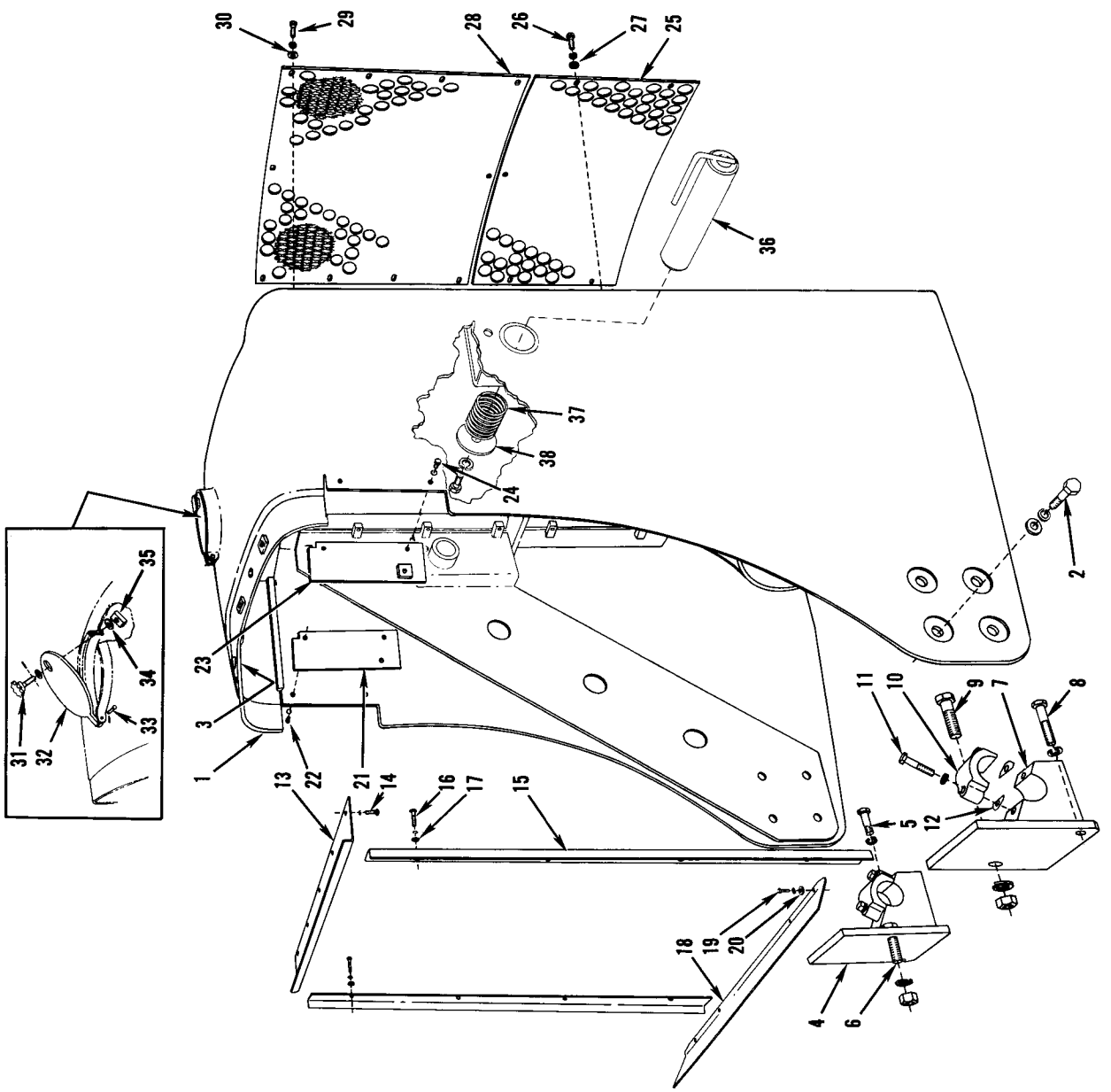
COMPLETE TRACK ASSEMBLIES WITH SHOES (2 Required)

NOTE: Each shoe listed below requires welding to rails to make integral assembly

ITEM	PART NO.	QTY.	DESCRIPTION
11	648083	84	SHOE, semi-grouser, 18". 649880
	082165	42	SHOE, semi-grouser, left side, 22"
	082166	42	SHOE, semi-grouser, right side 22"

T-36168

RADIATOR GUARD



RADIATOR GUARD

ITEM	PART NO.	QTY.	DESCRIPTION
1	638359	1	GUARD, radiator (Model 21G loaders prior to #14577)
	648152	1	GUARD, radiator (All Model 21GS;also Model 21G loaders #14577 and up)
2	012453	8	CAPSCREW, 3/4"NF x 2"
	904369	8	LOCKWASHER, 3/4"
	910255	8	WASHER, plain, SAE std., 3/4"
3	622653	6	NUT, flanged
4	087229	1	TRUNNION ASSEMBLY, left (Includes items 10 thru 12)
5	012742	1	CAPSCREW, 3/4"NF x 2-1/4"
	904369	1	LOCKWASHER, 3/4"
6	012586	1	CAPSCREW, 1"NF x 3-1/2"
	910916	1	LOCKWASHER, 1"
	911047	1	NUT, 1"NF
7	087230	1	TRUNNION ASSEMBLY, right (Includes items 10 thru 12)
8	012742	1	CAPSCREW, 3/4"NF x 2-1/4"
	904369	1	LOCKWASHER, 3/4"
9	012586	1	CAPSCREW, 1"NF x 3-1/2"
	910916	1	LOCKWASHER, 1"
	911047	1	NUT, 1"NF
10	------	2	CAP, trunnion (Not serviced separately)
11	023618	4	CAPSCREW, 5/8"NF x 2-1/2"
	904209	4	LOCKWASHER, 5/8"
12	087104	12	SHIM, trunnion cap (Use as required)
13	090759	1	BAFFLE, air, top
14	057927	5	CAPSCREW, 5/16"NF x 3/4"
	904205	5	LOCKWASHER, 5/16"
15	087165	2	BAFFLE, air, side
16	057927	8	CAPSCREW, 5/16"NF x 3/4"
	904205	8	LOCKWASHER, 5/16"
17	092665	8	WASHER, plain
18	633255	1	BAFFLE, air, lower
19	036034	4	CAPSCREW, 3/8"NF x 1"
	904206	4	LOCKWASHER, 3/8"
20	044973	4	WASHER, plain
21	087089	1	PLATE, hood strap attachment, left
22	035979	2	CAPSCREW, 3/8"NF x 5/8"
	904206	2	LOCKWASHER, 3/8"
23	087090	1	PLATE, hood strap attachment, right
24	035979	2	CAPSCREW, 3/8"NF x 5/8"
	904206	2	LOCKWASHER, 3/8"
25	093319	1	PLATE, front closure, lower
26	035190	5	CAPSCREW, 1/2"NC x 1-1/2"
	904208	5	LOCKWASHER, 1/2"
27	064531	5	WASHER, plain

(Continued)

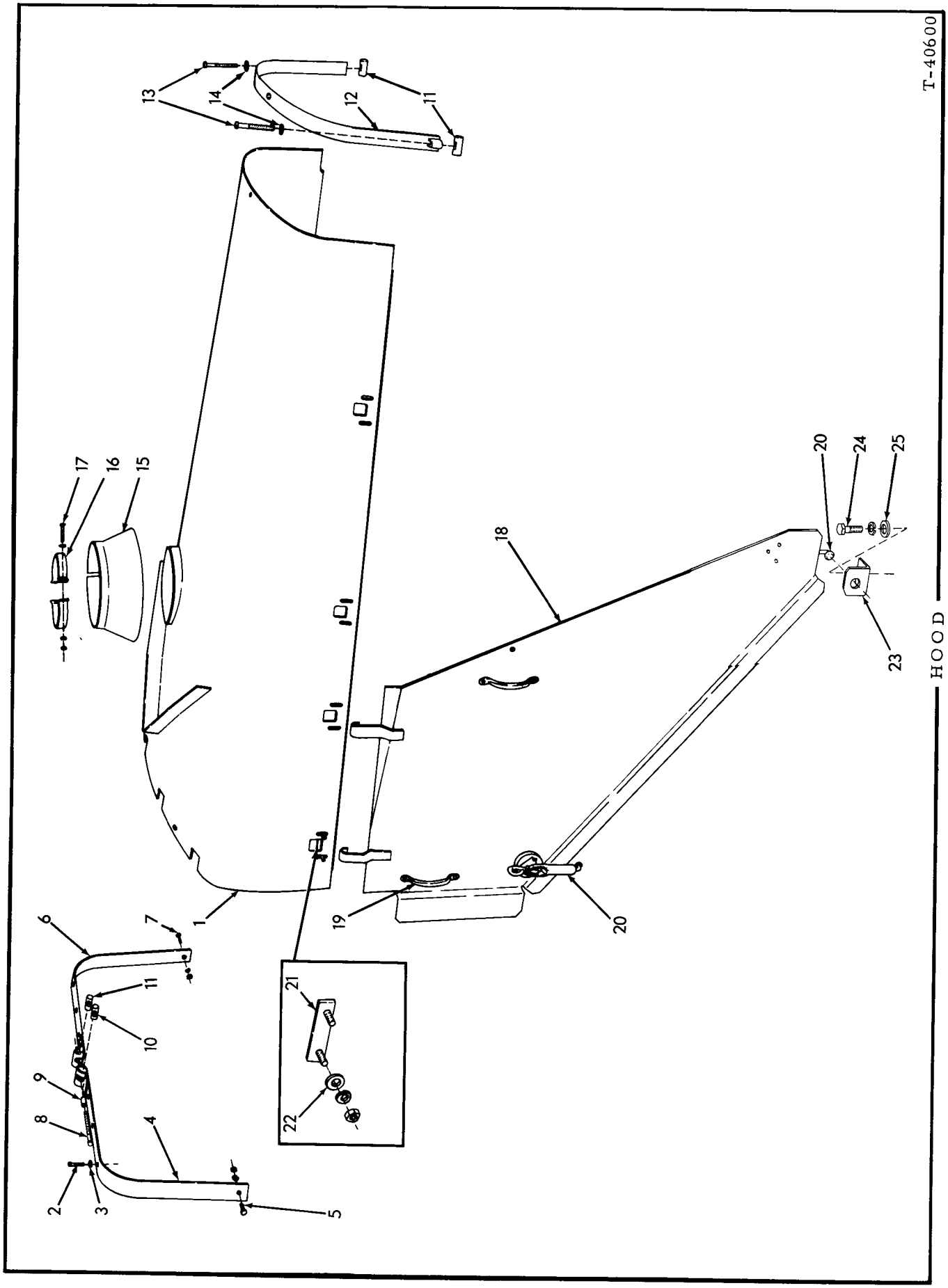
RADIATOR GUARD (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
28	093331	1	PLATE, front closure, upper	
29	035190	10	CAPSCREW, 1/2"NC x 1-1/2"	
	904208	10	LOCKWASHER, 1/2"	
30	064531	10	WASHER, plain	
31	624487	1	KNOB, top closure plate	
	910244	1	WASHER, plain, SAE std., 1/2"	
	916202	1	PIN, spring, 1/8" x 7/8"	
32	622403	1	PLATE, top closure	
33	622406	1	PIN, plate retaining	
	900970	1	PIN, cotter, 1/16" x 1/2"	
34	058614	1	WASHER, spacing	
35	624488	1	BLOCK, tapped	
36	648148	2	PIN, boom supporting	
37	645693	2	SPRING, boom supporting pin	
38	091875	2	WASHER, spring retaining	All Model 21GS; Also Model 21G loaders #14577 and up
	070469	2	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	2	LOCKWASHER, 1/2"	

NOTE: See PAINTING AND MARKING for transfer

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

MEMO


T-40600
HOOD
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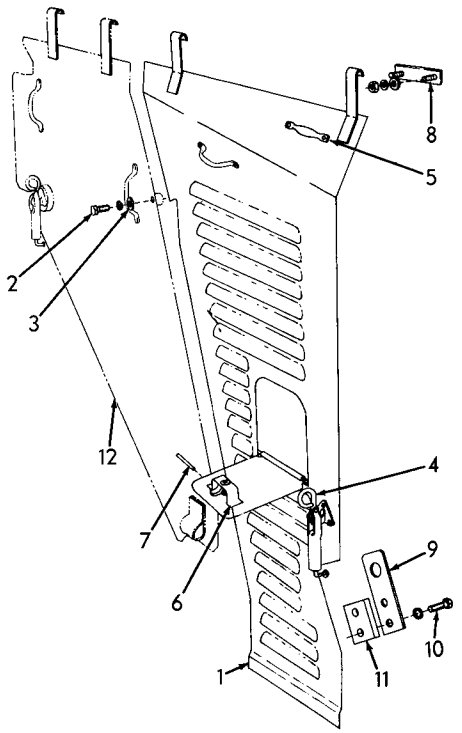
HOOD

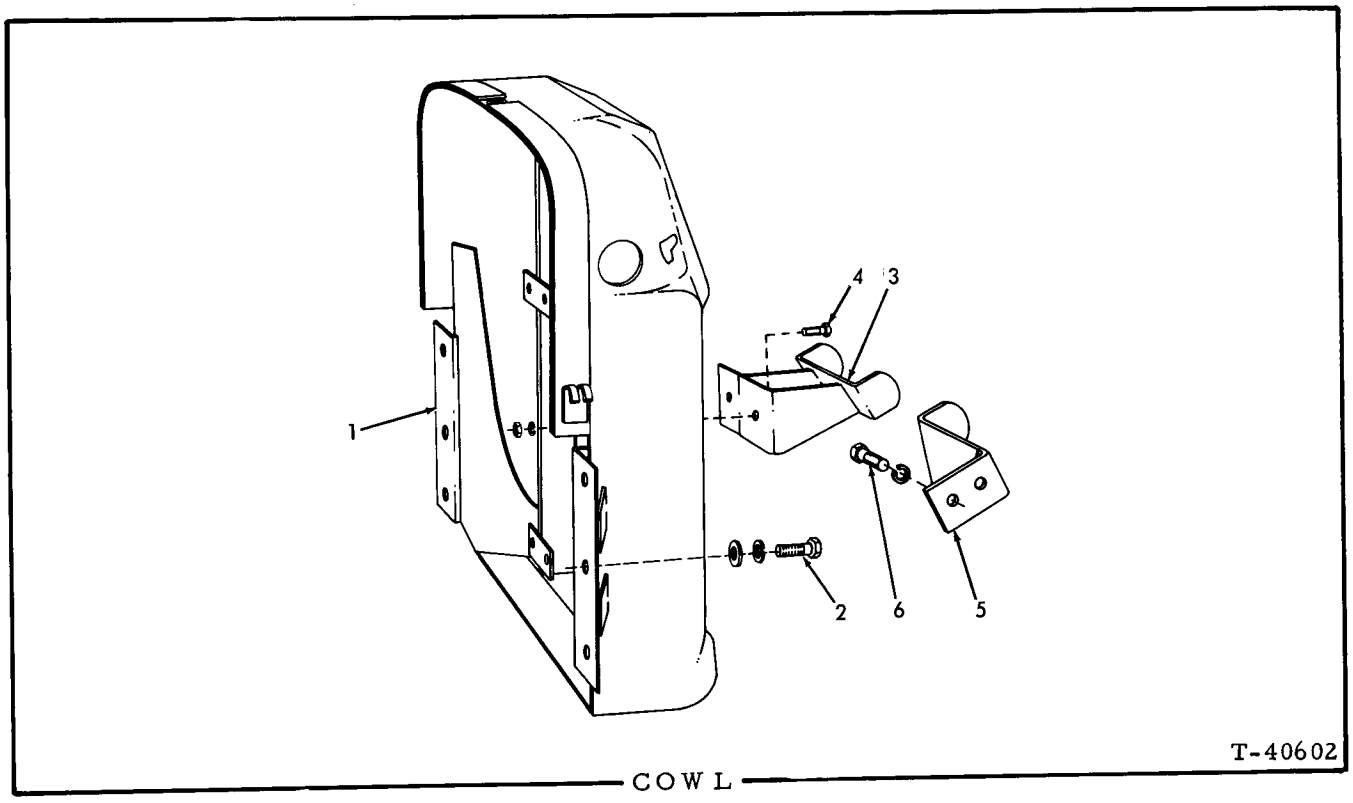
ITEM	PART NO.	QTY.	DESCRIPTION
1	631158	1	HOOD, engine
2	040382	6	CAPSCREW, 3/8"NC x 1-3/8"
3	044973	6	WASHER, plain
4	622651	1	STRAP, hold-down, left front
5	012992	1	CAPSCREW, 3/8"NF x 1-1/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
6	622652	1	STRAP, hold-down, right front
7	012992	1	CAPSCREW, 3/8"NF x 1-1/4"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
8	087159	1	CAPSCREW, front strap adjusting
9	053667	1	SPACER, front strap capscrew
10	050735	1	PIN, front strap (plain hole)
11	050734	3	PIN, strap adjusting (threaded hole)
12	622374	1	STRAP, hold-down, rear
13	088559	2	CAPSCREW, 3/8"NF x 3"
14	044973	2	WASHER, plain
15	092575	1	SHIELD, dirt, exhaust pipe
16	095589	2	CLAMP, dirt shield
17	035336	2	CAPSCREW, dirt shield clamp (3/8"NF x 1-3/4")
	044973	2	WASHER, plain
	904206	2	LOCKWASHER, 3/8"
	911041	2	NUT, 3/8"NF
18	633605	1	PLATE ASSEMBLY, left side (Includes items 19 and 20)
	633606	1	PLATE ASSEMBLY, right side (Includes items 19 and 20)
19	032834	4	HANDLE, plate lifting
	900764	8	RIVET, fl-hd. 3/16" x 1/2"
20	033060	4	FASTENER, hood latching
	900764	6	RIVET, fl-hd., 3/16" x 1/2" (rear)
	916023	6	RIVET, fl-hd., 3/16" x 1-1/8" (front)
21	631426	4	PLATE, side plate latching, upper
	911041	8	NUT, 3/8"NF
	904206	8	LOCKWASHER, 3/8"
22	044973	8	WASHER, plain
23	633512	2	CLIP, side plate capscrew
24	023465	2	CAPSCREW, 5/8"NF x 1-3/4"
	904209	2	LOCKWASHER, 5/8"
25	064810	2	WASHER, plain



HOOD SIDE PLATES T-40599

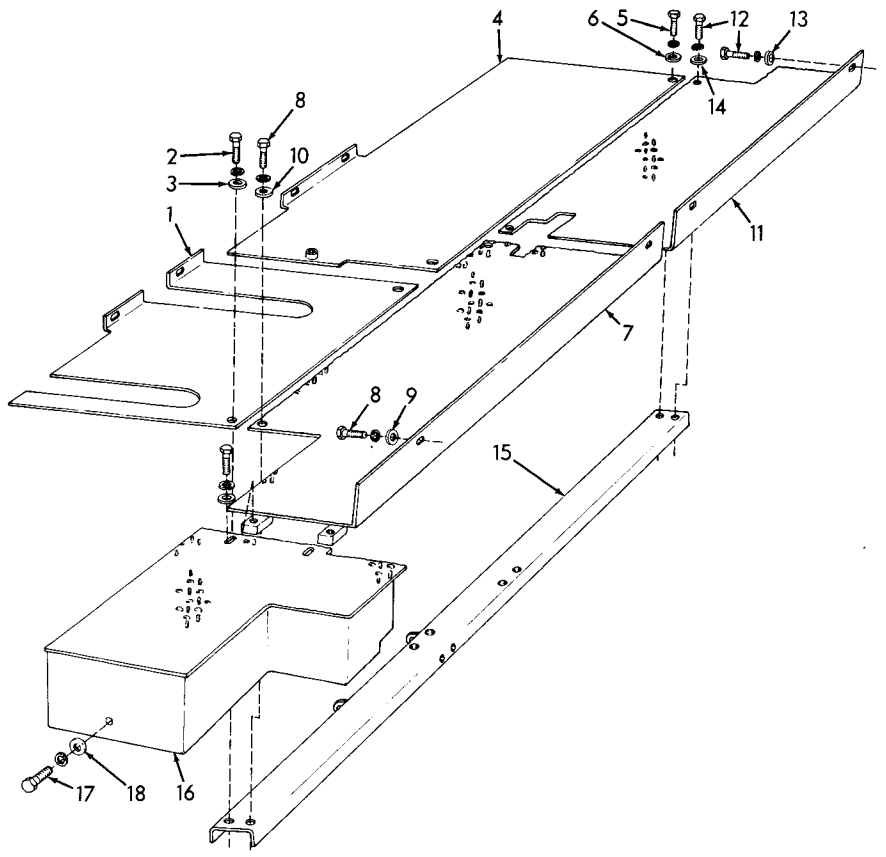
USAGE: Standard on Model 21GS; special on Model 21G.

ITEM	PART NO.	QTY.	DESCRIPTION
1	649997	1	PLATE ASSEMBLY, left side (Includes items 4 thru 7)
	649998	1	PLATE ASSEMBLY, right side (Includes items 4 and 5)
2	035061	2	CAPSCREW, 1/2"NC x 1-1/4"
	904208	2	LOCKWASHER, 1/2"
3	064531	2	WASHER, plain
4	033060	2	FASTENER
	900764	6	RIVET, fl-hd., 3/16" x 1/2"
5	032834	4	HANDLE, lifting
	900764	8	RIVET, fl-hd., 3/16" x 1/2"
6	633158	1	FASTENER ASSEMBLY, oil filler access door
	913143	2	RIVET, fl-hd., 1/4" x 7/16"
7	639439	1	PIN, door fastener
8	631426	4	PLATE, latching, top
	911041	8	NUT, 3/8"NF
	904206	8	LOCKWASHER, 3/8"
	044973	8	WASHER, plain
9	077228	2	PLATE, latching, bottom
10	035073	4	CAPSCREW, 1/2"NF x 1-3/4"
	904208	4	LOCKWASHER, 1/2"
11	089871	2	BLOCK, spacing, latching plate
12	------	2	PLATE ASSEMBLY (See HOOD)



COWL

ITEM	PART NO.	QTY.	DESCRIPTION
1	649034	1	COWL
2	070469	6	CAPSCREW, 1/2"NF x 1-1/4"
	064531	6	WASHER, plain
	904208	6	LOCKWASHER, 1/2"
3	633796	1	REST, right foot
4	070467	2	CAPSCREW, 1/2"NF x 1"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
5	089556	1	REST, left foot
6	070469	2	CAPSCREW, 1/2"NF x 1-1/4"
	904208	2	LOCKWASHER, 1/2"



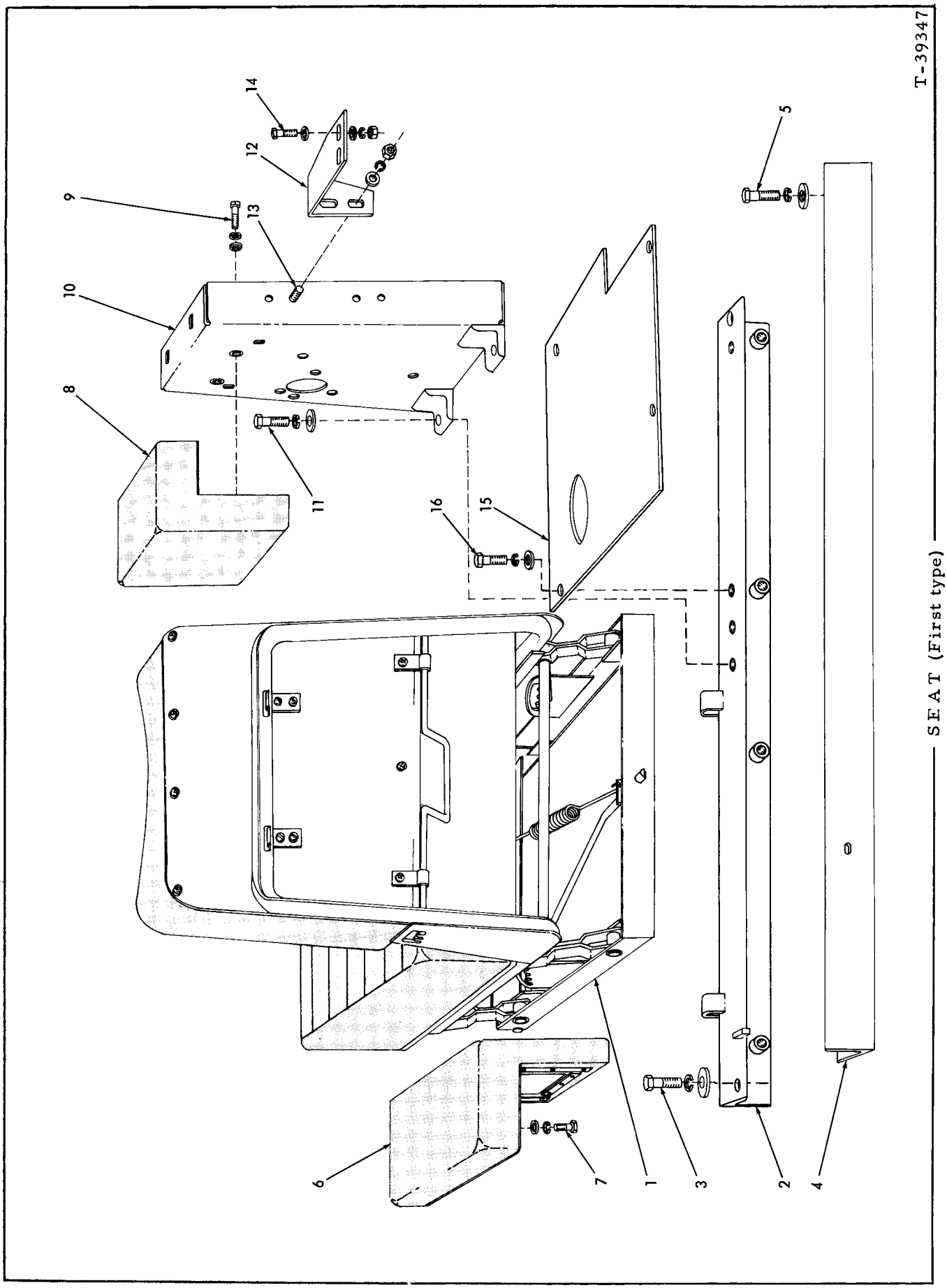
FLOOR T-71271

* Model 21G loaders prior to serial No. 14577
** All Model 21GS; also Model 21G loaders serial No. 14577 and up.

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	632406	1	1	PLATE, left front
2	035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	4	LOCKWASHER, 1/2"
3	064531	4	4	WASHER, plain
4	649456	1	1	PLATE, right front
5	035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	4	LOCKWASHER, 1/2"
6	064531	4	4	WASHER, plain
7	646408	1	-	PLATE, left rear
	648790	-	1	PLATE, left rear
8	035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	4	LOCKWASHER, 1/2"
9	064531	2	2	WASHER, plain (1-1/8" O. D.)
10	092163	2	2	WASHER, plain (1-3/4" O. D.)

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
11	632401	1	1	PLATE, right rear
12	035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	4	LOCKWASHER, 1/2"
13	064531	2	2	WASHER, plain (1-1/8" O. D.)
14	092163	2	2	WASHER, plain (1-3/4" O. D.)
15	632408	1	1	CHANNEL, supporting
16	648746	-	1	COVER, hydraulic lines
17	035190	-	3	CAPSCREW, 1/2"NC x 1-1/2"
	904208	-	3	LOCKWASHER, 1/2"
18	064531	-	3	WASHER, plain


T-39347
SEAT (First type)
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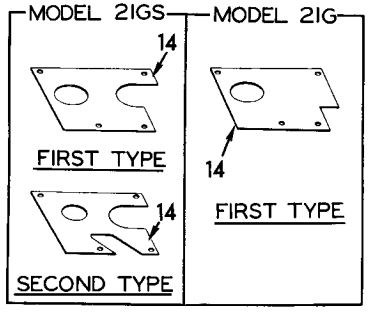
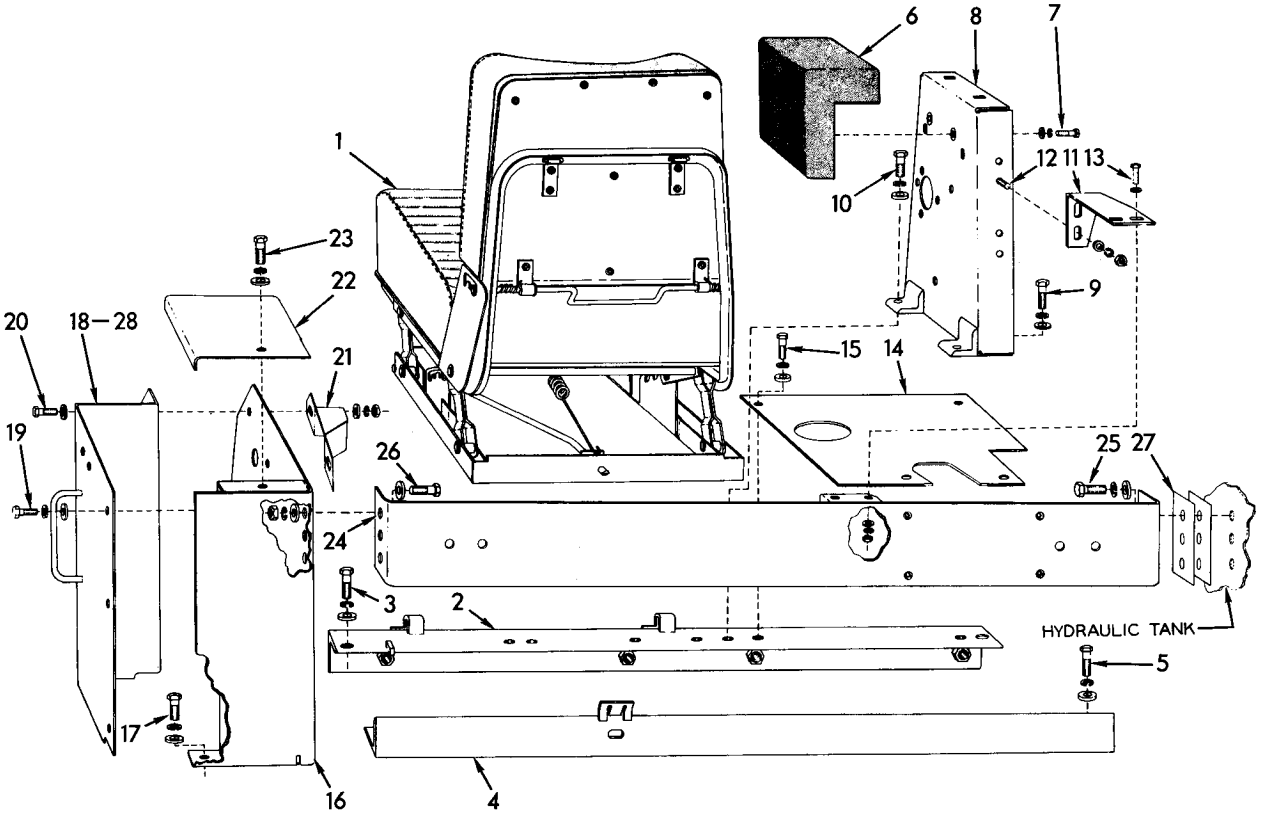
SEAT

USAGE: Model 21G loaders prior to serial No. 14577.

ITEM	PART NO.	QTY.	DESCRIPTION
1	632053	1	SEAT ASSEMBLY (Used prior to September 1965. Order SEAT ASSEMBLY 659093)(See page 275 for parts)
	659093	1	SEAT ASSEMBLY (Effective September 1965)(See page 279 for parts)
2	642497	1	ANGLE, seat supporting, front
3	035073	2	CAPSCREW, 1/2"NF x 1-3/4"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
4	639818	1	ANGLE, seat supporting, rear
5	035073	2	CAPSCREW, 1/2"NF x 1-3/4"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
6	632179	1	CUSHION, arm rest, left side
7	036034	4	CAPSCREW, 3/8"NF x 1"
	904206	4	LOCKWASHER, 3/8"
	044973	4	WASHER, plain
8	632188	1	CUSHION, arm rest, right side
9	919331	4	CAPSCREW, 3/8"NF x 1" } Plated
	916965	4	LOCKWASHER, 3/8" } Plated
	920743	4	WASHER, plain } Plated
10	632284	1	SUPPORT, right arm rest cushion
11	035190	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain
12	632274	1	ANGLE, bracing, right arm rest support
13	036034	2	CAPSCREW, 3/8"NF x 1"
14	036039	2	CAPSCREW, 3/8"NF x 1-3/8"
	044973	6	WASHER, plain
	904206	4	LOCKWASHER, 3/8"
	911041	4	NUT, 3/8"NF
15	632315	1	PLATE, floor
16	035190	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain
17	657564	1	BELT, safety (Special equipment. Not illustrated)

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"





T-71277

SEAT (Second type)

SEAT

USAGE: All Model 21GS loaders; also Model 21G loaders serial No. 14577 and up.

ITEM	PART NO.	QTY.	DESCRIPTION
1	659093	1	SEAT ASSEMBLY (Model 21G)(See page 279 for parts)
	641240	1	SEAT ASSEMBLY (Fire-resistant. Model 21GS loaders prior to #14627)(See page 275 for parts)
	650199	1	SEAT ASSEMBLY (Fire resistant. Model 21GS #14627 and up)(See page 279 for parts)
2	655500	1	ANGLE, seat supporting, front
3	035073	2	CAPSCREW, 1/2"NF x 1-3/4"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
4	655557	1	ANGLE, seat supporting, rear
5	035073	2	CAPSCREW, 1/2"NF x 1-3/4"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
6	632188	1	CUSHION, arm rest, right side (Model 21G)
	641241	1	CUSHION, arm rest, right side (Fire-resistant)(Model 21GS)
7	919331	4	CAPSCREW, 3/8"NF x 1" } Plated
	916965	4	LOCKWASHER, 3/8" } Plated
	920743	4	WASHER, plain } Plated
8	649115	1	SUPPORT, right arm rest cushion
9	035190	2	CAPSCREW, 1/2"NC x 1-1/2"
10	035236	2	CAPSCREW, 1/2"NC x 1-3/4"
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain
11	659648	1	ANGLE, bracing, right arm rest support
12	036034	2	CAPSCREW, 3/8"NF x 1"
13	036039	2	CAPSCREW, 3/8"NF x 1-3/8"
	044973	6	WASHER, plain
	904206	4	LOCKWASHER, 3/8"
	911041	4	NUT, 3/8"NF
14	632315	1	PLATE, floor (Model 21G only)(Used prior to loader #14614)
	661158	1	PLATE, floor (Model 21G only)(Effective with loader #14614)
	649768	1	PLATE, floor (Model 21GS only)(Used prior to loader #14614)
	661157	1	PLATE, floor (Model 21GS only)(Effective with loader #14614)
15	035190	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain
16	648727	1	SUPPORT, seat, left side
17	035236	6	CAPSCREW, 1/2"NC x 1-3/4"
	904208	6	LOCKWASHER, 1/2"
	064531	6	WASHER, plain

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
18	650162	1	COVER, speed control valve compartment, side
19	035439	5	CAPSCREW, 3/8"NC x 1"
20	070960	1	CAPSCREW, 3/8"NC x 1-1/2"
	904206	6	LOCKWASHER, 3/8"
	044973	7	WASHER, plain
	911026	1	NUT, 3/8"NC
21	648737	1	COVER, safety switch
22	648738	1	COVER, speed control valve compartment, top
23	035439	1	CAPSCREW, 3/8"NC x 1"
	904206	1	LOCKWASHER, 3/8"
	044973	1	WASHER, plain
24	648725	1	SUPPORT (Loaders prior to #14614)
	661148	1	SUPPORT (Loaders #14614 and up)
25	035073	3	CAPSCREW, 1/2"NF x 1-3/4"
	904208	3	LOCKWASHER, 1/2"
	064531	3	WASHER, plain
26	035067	3	CAPSCREW, 1/2"NF x 2"
	047063	6	WASHER, plain
	904208	3	LOCKWASHER, 1/2"
	911043	3	NUT, 1/2"NF
27	644928	2	SHIM, support (right side)(Use as required)
28	657564	1	BELT, safety (Special equipment. Not illustrated)

NOTE: See PAINTING AND MARKING for transfers

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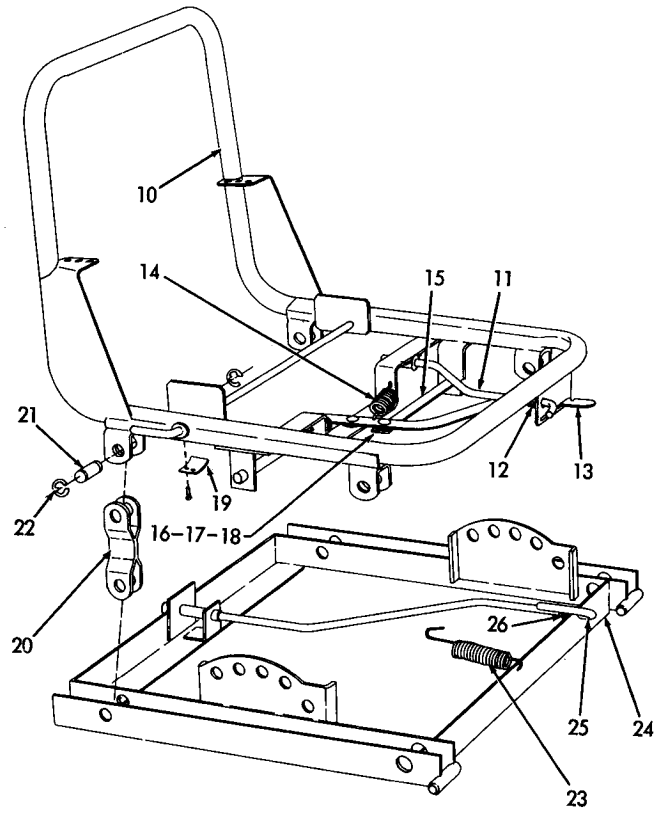

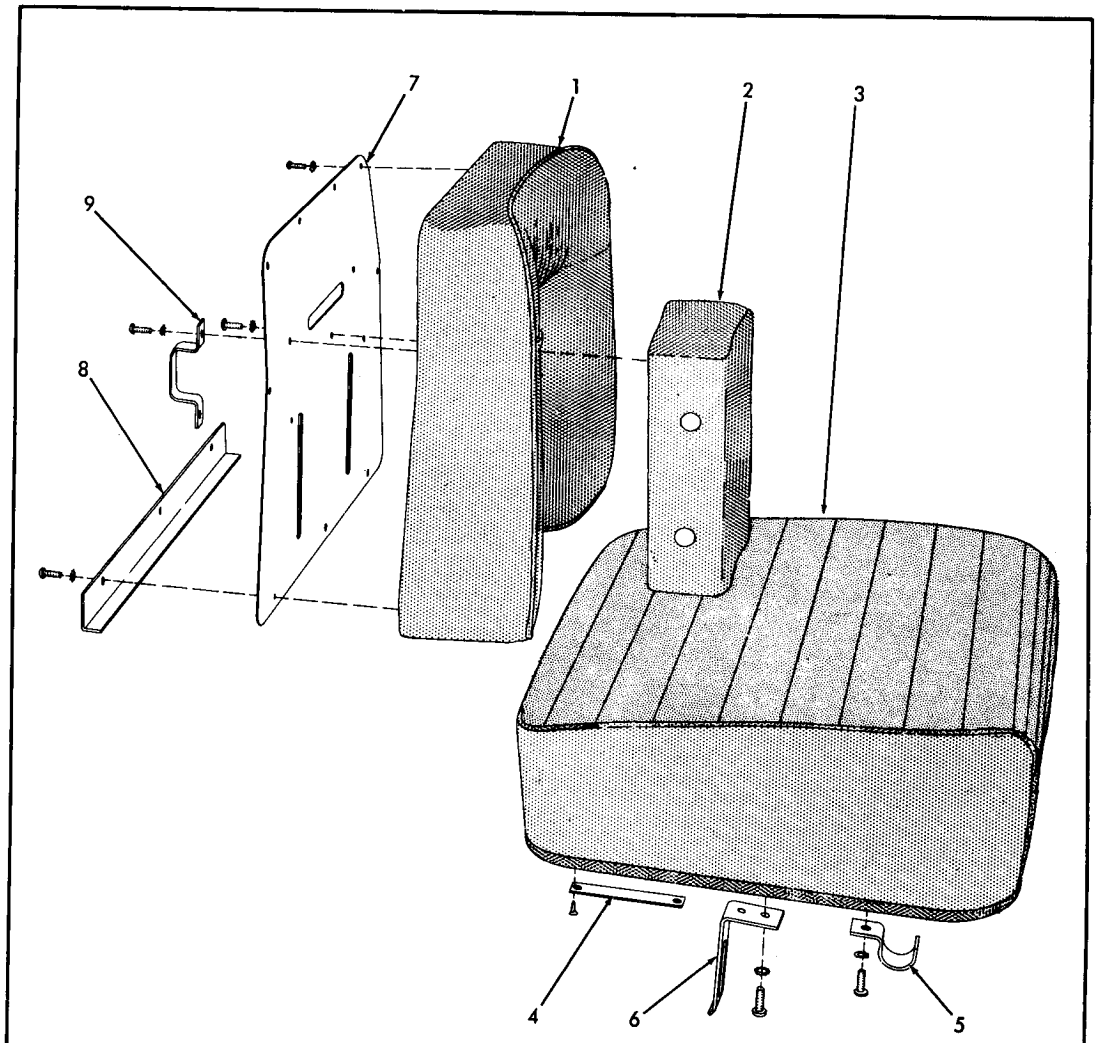

SEAT CUSHIONS

T-39321

SEAT PARTS (Early units)

USAGE: Early units

632053 SEAT ASSY. (See page 269)
641240 SEAT ASSY. (Fire-resistant) (See page 271)

ITEM	PART NO.	QTY.	DESCRIPTION
1	638422	1	CUSHION, back (outside section) (For SEAT 632053)
	641249	1	CUSHION, back (outside section) (Fire-resistant. For SEAT 641240)
	642499	1	COVER, slip, back cushion (Includes fastenings) (Not original equipment)
2	638421	1	CUSHION, back (center section) (For SEAT 632053)
	641250	1	CUSHION, back (center section) (Fire-resistant. For SEAT 641240)
	916532	2	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	2	LOCKWASHER, ext-tooth, 1/4"
	642498	1	COVER, slip, back cushion (Includes fastenings) (Not original equipment)
3	659102	1	CUSHION ASSEMBLY, seat (Includes item 4) (For SEAT 632053)
	641248	1	CUSHION ASSY., seat (Includes item 4) (Fire-resistant. For SEAT 641240)
	642500	1	COVER, slip, seat cushion (Includes fastenings) (Not original equipment)
4	638431	2	PLATE, bearing, seat cushion
	------	4	SCREW, wood, fl-hd., #8 x 1/2" (Procure locally)
5	638432	2	BRACKET, pivot, seat cushion
	916532	2	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	2	LOCKWASHER, ext-tooth, 1/4"
6	638369	1	STOP, seat cushion locking rod
	916532	2	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	2	LOCKWASHER, ext-tooth, 1/4"
7	------	1	PLATE, reinforcing, back cushion (Not serviced separately)
	916532	6	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	6	LOCKWASHER, ext-tooth, 1/4"
8	638427	1	SUPPORT, back cushion
	916532	3	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	3	LOCKWASHER, ext-tooth, 1/4"
9	638435	2	BRACKET, retaining, back cushion
	916532	4	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	4	LOCKWASHER, ext-tooth, 1/4"
10	638468	1	FRAME ASSEMBLY, seat (Includes items 11 thru 19)
11	638425	1	ROD, locking, seat cushion
	911115	2	WASHER, plain, SAE std., 3/8"
	900801	2	PIN, cotter, 3/32" x 3/4"
12	638429	1	SPRING, seat cushion locking rod
13	638363	1	STRAP, operating, seat position
14	638428	2	SPRING, seat position operating strap
15	638426	2	ROD, locking, seat position
16	638430	3	PIN, seat position locking rod

(Continued)

SEAT PARTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
17	628001	3	WASHER, spacing, seat position rod
18	638354	3	WASHER, retaining, seat position rod pin
19	638433	1	SPRING, cushion height adjuster
	914197	2	SCREW, thd-cutting, rd-hd., #6 x 3/8"
20	638423	4	LINK, suspension, seat frame
21	638434	8	PIN, seat frame suspension link
22	638351	16	RING, locking, suspension link pin
23	638424	1	SPRING, retracting, seat frame
24	638371	1	FRAME ASSEMBLY, base (Includes items 25 and 26)
25	639975	1	ROD, seat release
	910335	1	WASHER, plain, SAE std., 5/16"
	900801	2	PIN, cotter, 3/32" x 3/4"
26	638429	1	SPRING, seat release rod

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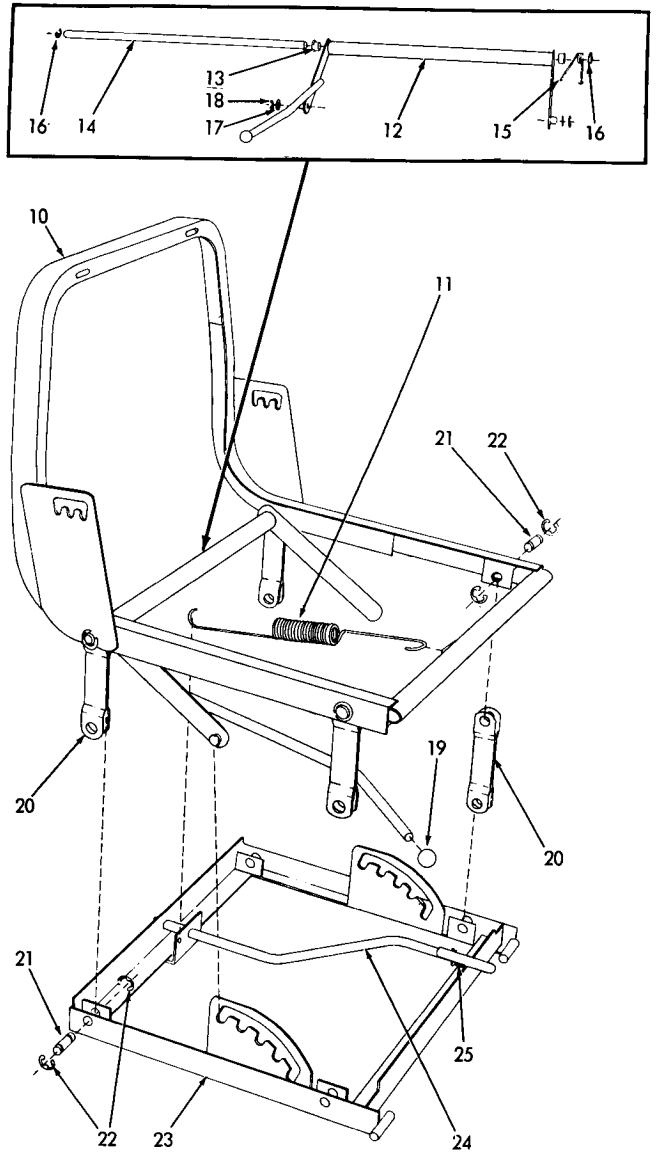
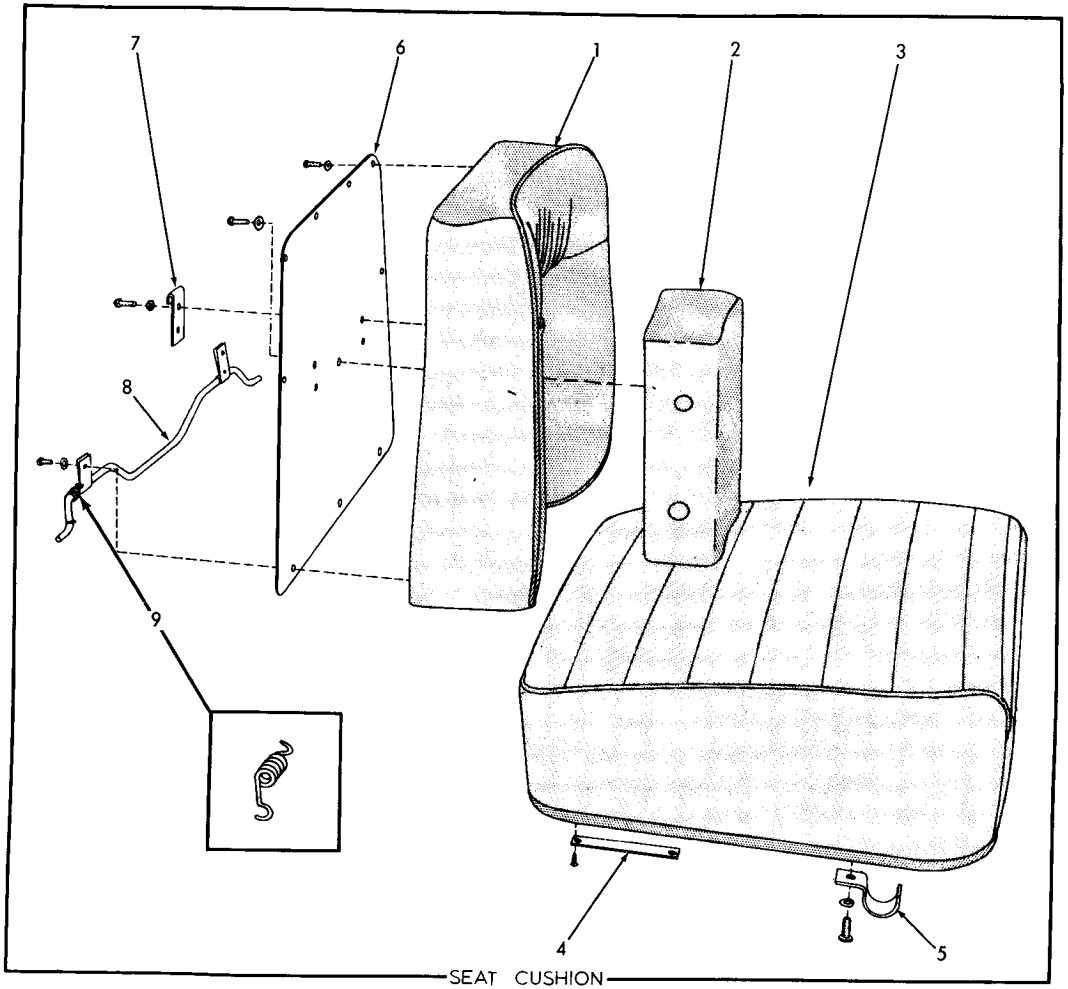




SEAT CUSHION

SEAT PARTS (Late units)

T-71877

USAGE: Late units.

659093 SEAT ASSEMBLY (See pages 269 and 271)
650199 SEAT ASSEMBLY (Fire-resistant)(See page 271)

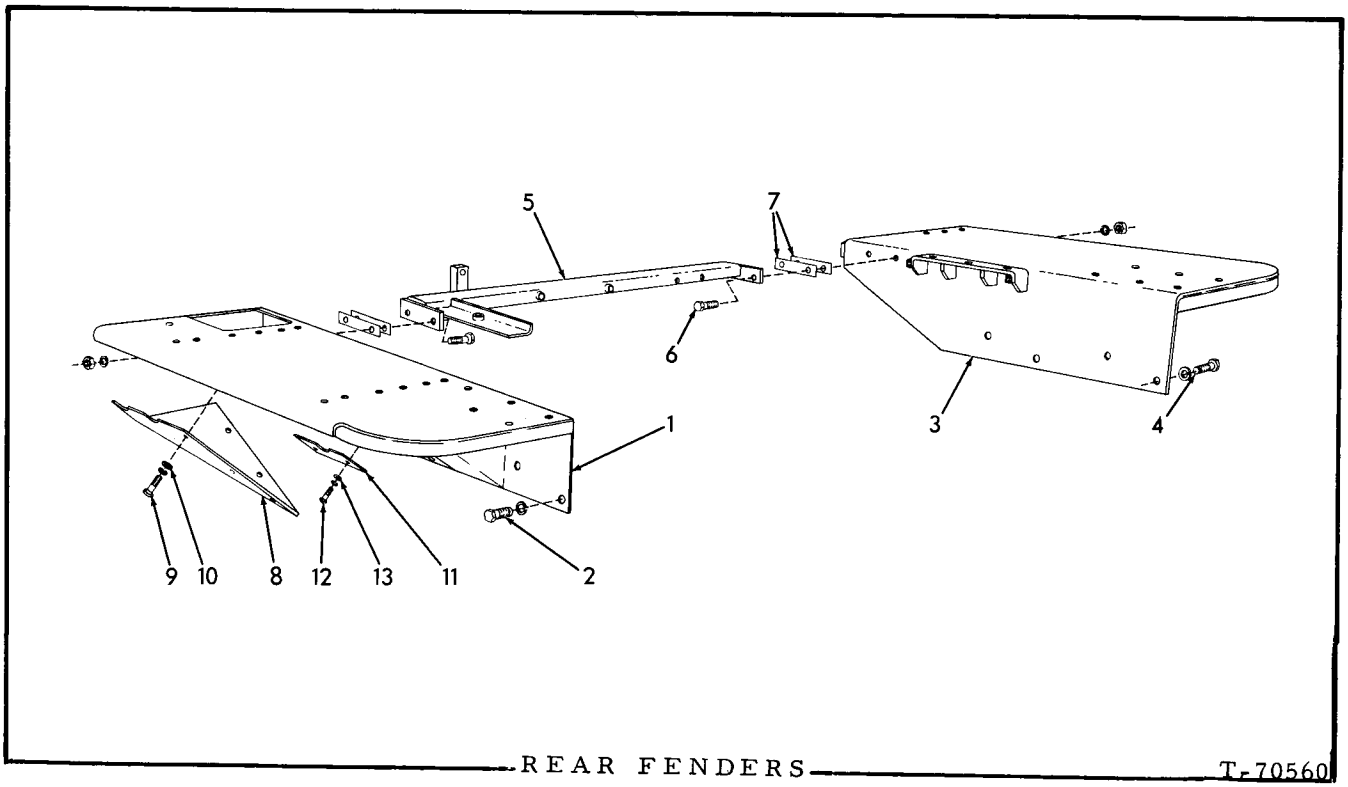
ITEM	PART NO.	QTY.	DESCRIPTION
1	638422	1	CUSHION, back (outside section)(For SEAT 659093)
	641249	1	CUSHION, back (outside section. For SEAT 650199)
	642499	1	COVER, slip, back cushion (Includes fastenings)(Not original equipment)
2	638421	1	CUSHION, back (center section)(For SEAT 659093)
	641250	1	CUSHION, back (center section)(Fire-resistant. For SEAT 650199)
	916532	2	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	2	LOCKWASHER, ext-tooth, 1/4"
	642498	1	COVER, slip, back cushion (Includes fastenings)(Not original equipment)
3	659102	1	CUSHION ASSEMBLY, seat (Includes item 4)(For SEAT 659093)
	641248	1	CUSHION ASSEMBLY, seat (Includes item 4)(Fire-resistant. For SEAT 650199)
	642500	1	COVER, slip, seat cushion (Includes fastenings)(Not original equipment)
4	638431	2	PLATE, bearing, seat cushion
	------	4	SCREW, wood, fl-hd., #8 x 1/2" (Procure locally)
5	638432	2	BRACKET, pivot, seat cushion
	916532	2	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	2	LOCKWASHER, ext-tooth, 1/4"
6	650143	1	PLATE, reinforcing, back cushion
	916532	6	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	6	LOCKWASHER, ext-tooth, 1/4"
7	650132	2	BRACKET, retaining, back cushion
	916532	4	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	4	LOCKWASHER, ext-tooth, 1/4"
8	650141	1	ROD ASSEMBLY, back cushion adjustment (Includes mounting clips)
	916532	2	SCREW, machine, rd-hd., 1/4"NC x 3/4"
	914105	2	LOCKWASHER, ext-tooth, 1/4"
9	650137	1	SPRING, back cushion adjustment rod
10	650144	1	FRAME, seat
11	650138	1	SPRING, retracting, seat frame
12	650142	1	LATCH, seat adjustment
13	650146	2	BEARING, seat adjustment latch
14	650136	1	SHAFT, seat adjustment latch

(Continued)

SEAT PARTS (Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
15	650135	1	SPRING, seat adjustment latch
16	638351	2	RING, snap, seat adjustment latch shaft
17	188436	2	WASHER, seat adjustment latch
18	650147	2	RING, snap, seat adjustment latch
19	650133	1	KNOB, seat adjustment latch
20	650139	4	LINK, suspension, seat frame
21	650131	6	PIN, seat frame suspension link
22	638351	12	RING, snap, suspension link pin
23	650145	1	FRAME ASSEMBLY, base (Includes items 24 and 25)
24	650140	1	ROD, seat release
	188436	1	WASHER, plain
	924169	2	PIN, groove, 1/8" x 1"
25	650134	1	SPRING, seat release rod

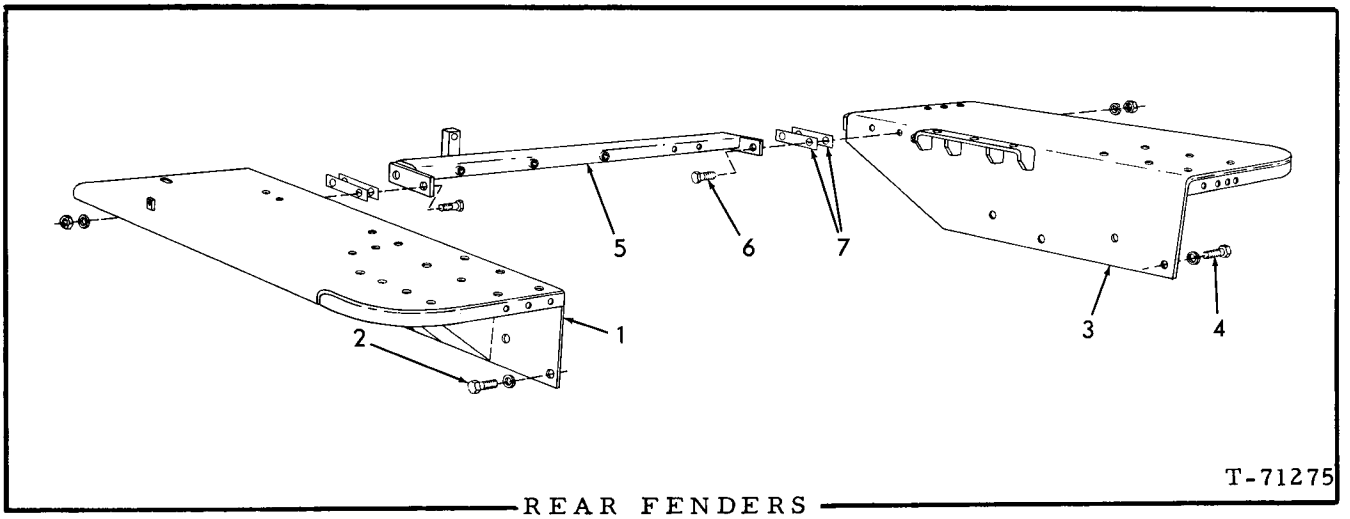
"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



REAR FENDERS T-70560

USAGE: Model 21G loaders prior to serial No. 14577.

ITEM	PART NO.	QTY.	DESCRIPTION
1	632781	1	FENDER, left
2	648716	4	CAPSCREW, Nylok, 3/4"NF x 1-3/4"
	904369	4	LOCKWASHER, 3/4"
3	648735	1	FENDER, right
4	648716	4	CAPSCREW, Nylok, 3/4"NF x 1-3/4"
	904369	4	LOCKWASHER, 3/4"
5	633254	1	CHANNEL, fender bracing
6	035018	4	CAPSCREW, 1/2"NF x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
	911043	4	NUT, 1/2"NF
7	085737	8	SHIM, channel spacing (Use as required)
8	642565	1	COVER, access hole (front)
9	036034	5	CAPSCREW, 3/8"NF x 1"
	904206	5	LOCKWASHER, 3/8"
10	044973	5	WASHER, plain
11	646135	1	COVER, access hole (rear)
12	614478	2	CAPSCREW, 1/2"NF x 1-3/8"
	904208	2	LOCKWASHER, 1/2"
13	064531	2	WASHER, plain



REAR FENDERS

USAGE: All Model 21GS loaders; also Model 21G loaders serial No. 14577 and up.

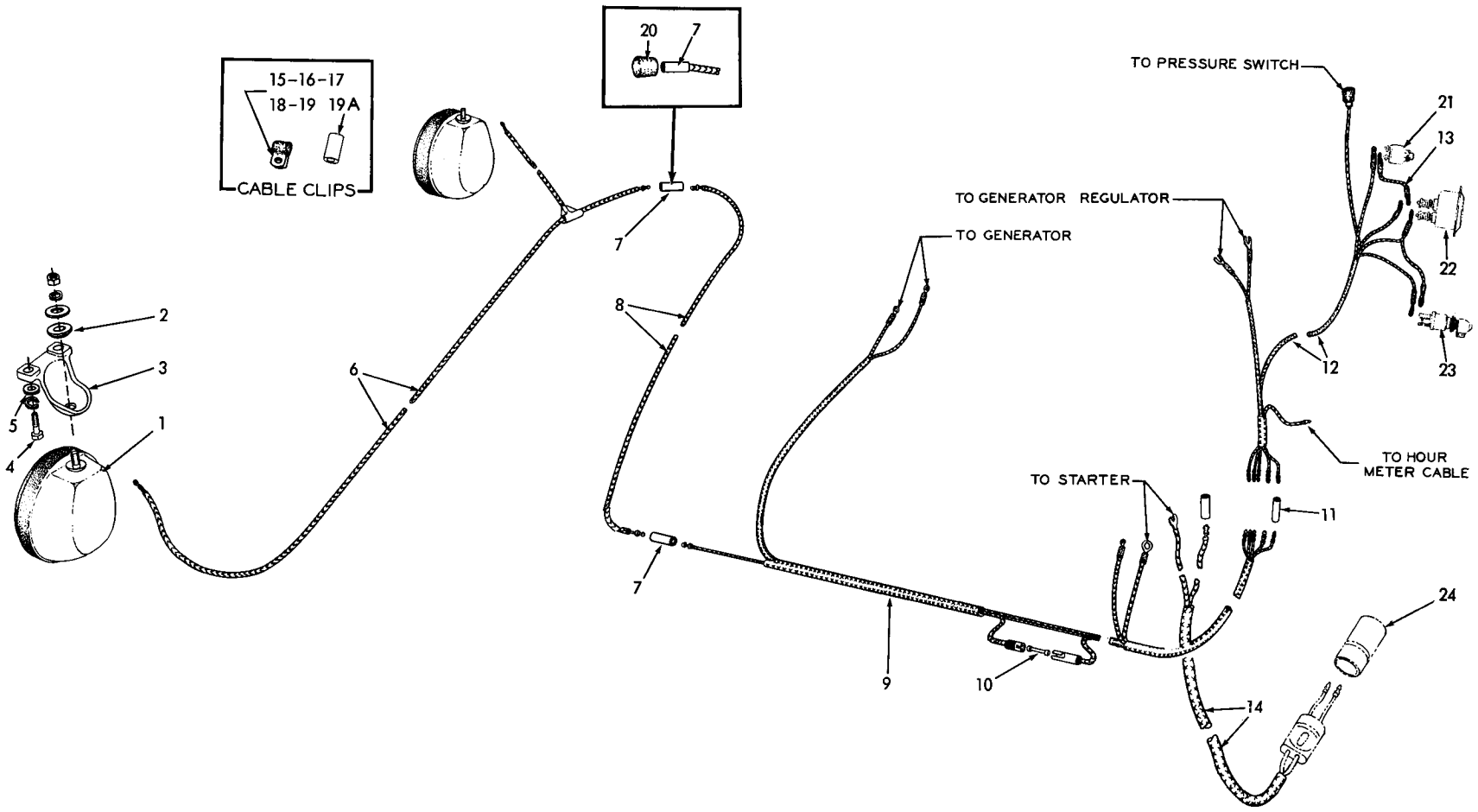
ITEM	PART NO.	QTY.	DESCRIPTION
1	648649	1	FENDER, left
2	648716	4	CAPSCREW, Nylok, 3/4"NF x 1-3/4"
	904369	4	LOCKWASHER, 3/4"
3	648735	1	FENDER, right
4	648716	4	CAPSCREW, Nylok, 3/4"NF x 1-3/4"
	904369	4	LOCKWASHER, 3/4"
5	648633	1	CHANNEL, fender bracing (Model 21GS loaders prior to #14577)
	656288	1	CHANNEL, fender bracing (Model 21G; also Model 21GS loaders #14577 and up)
6	035018	4	CAPSCREW, 1/2"NF x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
	911043	4	NUT, 1/2"NF
7	085737	8	SHIM, channel spacing (Use as required)

PAINTING AND MARKING
(Not Illustrated)

ITEM	PART NO.	QTY.	DESCRIPTION
			NOTE: Approximately 7 gallon paint required for spraying 1 coat
1	925109	-	ENAMEL, A-C yellow, quart can
2	925110	-	ENAMEL, A-C yellow, gallon can
3	925108	-	ENAMEL, A-C yellow, 12 oz. pressurized spray-type can
			NOTE: All plates and transfers listed below are English language printings unless otherwise indicated
4	632919	1	PLATE, loader lubrication and service guide (7" x 10")(Units with 21000 H engine) — Attached to left side of shovel frame
	659540	1	PLATE, loader lubrication and service guide (7" x 10")(Units with 21000-Mark II engine) — Attached to left side of shovel frame
	034076	4	SCREW, thd.-cutting, #8 x 1/2" — Attached to left side of shovel frame
	633652	1	PLATE, loader lubrication and service guide (multi-language, 7" x 12-7/8")(Units with 21000 H engine) — Attached to left side of shovel frame
	659541	1	PLATE, loader lubrication and service guide (multi-language, 7" x 12-7/8")(Units with 21000-Mark II engine) — Attached to left side of shovel frame
	034076	6	SCREW, thd.-cutting, #8 x 1/2" — Attached to left side of shovel frame
5	633931	1	PLATE, shovel lubricatinn and service guide (5" x 7")(Model 21G only) — Attached to left side of shovel frame
	666975	1	PLATE, shovel lubrication and service guide (5" x 7")(Model 21GS only) — Attached to left side of shovel frame
	034076	4	SCREW, thd.-cutting, #8 x 1/2"
6	621357	1	TRANSFER, lubrication certification (3-7/8" x 6-3/4")(Model 21G only. Applied to dash)
7	650387	1	TRANSFER, undercarriage service and lubrication guide (3-5/8" x 6-1/2")(Model 21GS only. (Applied to dash)
8	655651	1	TRANSFER, lubrication instruction, alternator drive (1-1/4" x 5-1/4")(Model 21GS only. Applied to rear of alternator rotor)
9	650587	1	TRANSFER, turbocharger altitude warning (1-3/4" x 3-1/2") (Applied to dash)
10	666497	1	TRANSFER, instruction, engine operation (2-1/4" x 4-1/2") (Applied to dash)
11	629205	1	TRANSFER, warning, power steering and brakes (1-3/4" x 3-1/2") (Applied to dash)
12	644616	1	TRANSFER, instruction, 1st stage fuel filter (1-3/4" x 2-1/4") (Applied to filter)
13	644619	1	TRANSFER, instruction, 2nd stage fuel filter (1-3/4" x 2-1/4") (Applied to filter)
14	621343	2	TRANSFER, instruction, oil filter (2-5/16" x 3-1/4")(Applied to engine oil filter)

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
15	659539	1	TRANSFER, warning, by-pass type oil filter (Includes Portuguese translation, 2" x 10") (Applied to filter)	Units with 21000-Mark II engine
	659538	1	TRANSFER, warning, by-pass type oil filter (French and Spanish translations, 2" x 10") (Applied to filter)	
16	665147	1	TRANSFER, instruction, coolant filter (2-3/4" x 3-1/2")(Applied to filter)	
17	644534	1	TRANSFER, instruction, transmission oil filter (1-3/4" x 2-1/4") (Applied to filter)	
18	632226	2	TRANSFER, instruction, steering pressure line oil filter (1-3/4" x 2-1/4")(Applied to filter)	
19	621342	1	TRANSFER, instruction engine primer (1-3/4" x 6")(Applied to dash)	
20	633384	1	TRANSFER, instruction, air heater operation (2" x 6")(Applied to dash)	
21	641129	1	TRANSFER, instruction, air cleaner (4" x 4")(Applied to dash)	
22	651894	1	TRANSFER, instruction, air cleaner cartridge replacement (1-5/16" x 2-7/16")(Applied to air restriction indicator on early units only)	
23	634516	1	TRANSFER, instruction, shovel hydraulic system (4" x 6-3/8") (Applied to hydraulic tank)	
24	3029538	1	STICKER, caution, hydraulic fluid (2-1/8" x 3")(Applied to top of hydraulic tank on units equipped to use phosphate-ester fire resistant hydraulic fluid)	
25	924552	2	TRANSFER, "ALLIS-CHALMERS"(2-3/8" x 39")(Applied to sides of hood on early units)	
26	924550	1	TRANSFER, "ALLIS-CHALMERS"(1-7/8" x 30")(Applied to front of radiator guard)	
27	924548	1	TRANSFER, "ALLIS-CHALMERS"(1-1/4" x 20")(Model 21G only. Applied to side of hydraulic tank on loaders prior to #15104)	
28	924555	1	TRANSFER, "ALLIS-CHALMERS" (3-3/8" x 55")(Applied to rear of loader)	
29	668050	3	TRANSFER "21G"(Applied to sides and rear of loader)	
30	925158	2	TRANSFER, "21000 Mark II Power" (2" x 7-3/4")(Applied to sides of radiator guard on units equipped with 21000-Mark II engine)	
31	632261	2	TRANSFER, "TORQUE CONVERTER-POWER SHIFT" design (Applied to sides of loader)	
32	924306	2	TRANSFER, trademark (7-3/4", orange and black)	Applied to sides of radiator guard
	924463	2	TRANSFER, trademark (7-3/4", white)(optional)	
33	924320	1	TRANSFER, trademark (6-3/4", orange and black)	Applied to rear of loader
	924541	1	TRANSFER, trademark (6-3/4", white)(optional)	


15-16-17
18-19 19A
CABLE CLIPS
20
7
TO PRESSURE SWITCH
21
13
TO GENERATOR REGULATOR
TO GENERATOR
22
23
12
TO HOUR METER CABLE
TO STARTER
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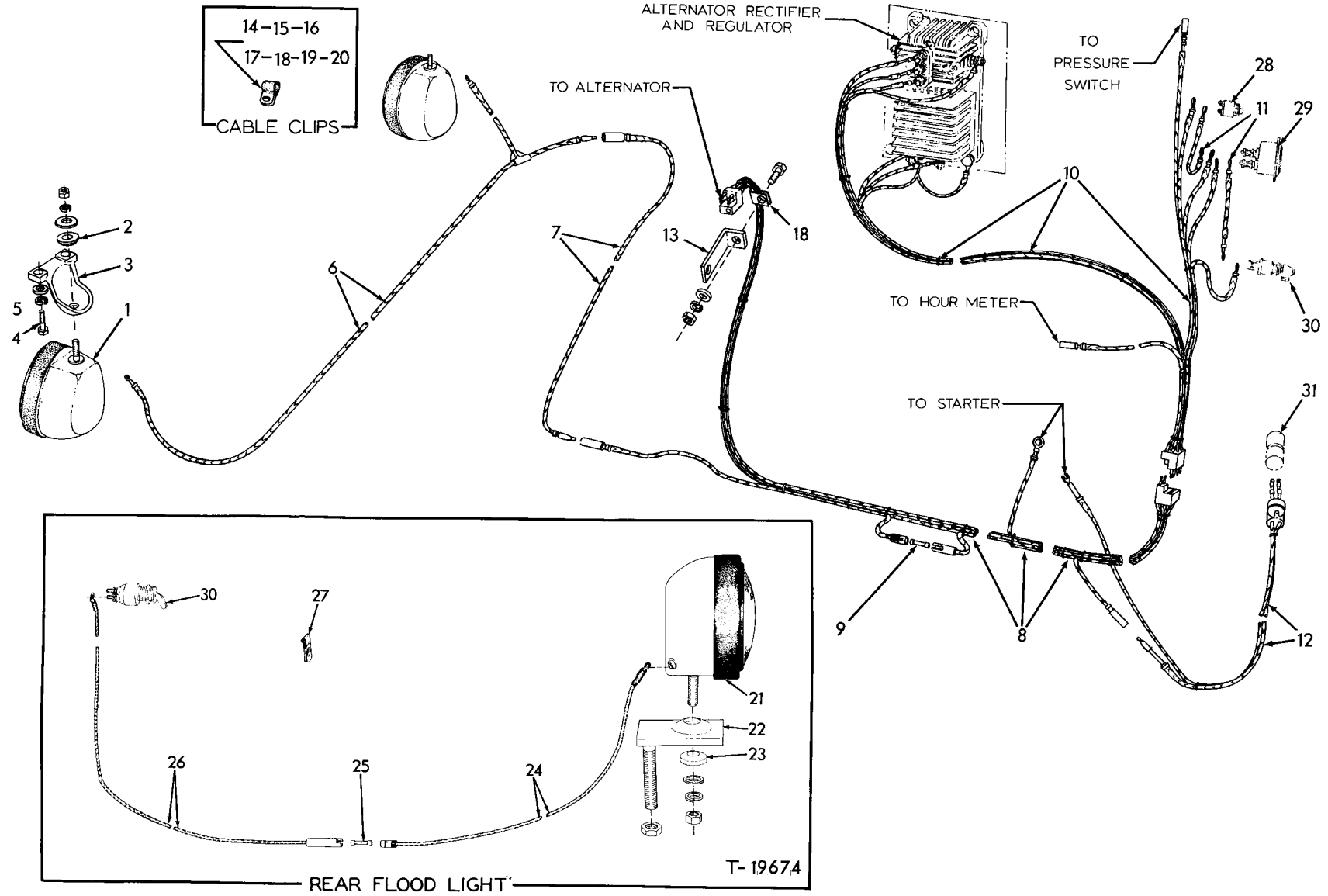
T-19681

LIGHTS AND WIRING

USAGE: Model 21G

ITEM	PART NO.	QTY.	DESCRIPTION
1	638283	2	*LIGHT ASSY., head (See page 291 for parts)(Early units)
	621429	2	*LIGHT ASSY., head (See page 294 for parts)(Late units)
	900818	2	WASHER, plain, U.S. std., 1/2"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
2	075535	2	*WASHER, head light mounting
3	093195	2	*BRACKET, head light mounting
4	035336	4	CAPSCREW, 3/8"NF x 1-3/4"
	904206	4	LOCKWASHER, 3/8"
5	044973	4	WASHER, plain
6	093196	1	*CABLE, head light, upper section
7	048142	2	CONNECTOR, head light cables
8	093194	1	CABLE, head light, lower section
9	630683	1	HARNESS, wiring, front section
10	208960	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes
11	048142	5	CONNECTOR, wiring harness (1-line)
12	640705	1	HARNESS, wiring, rear section
13	095860	1	CABLE, ammeter to starter switch
14	630497	1	HARNESS, wiring, safety switch (Used prior to loader #14577)
	650313	1	HARNESS, wiring, safety switch (Effective with loader #14577)
15	640677	5	CLIP, head light cables (1/4" diam., 13/32" bolt-hole)(4 additional used with head lights)
	036032	1	CAPSCREW, 3/8"NF x 3/4"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
16	640676	7	CLIP, wiring harness (5/16" diam., 13/32" bolt-hole)
	035244	6	CAPSCREW, 3/8"NC x 3/4"
	904206	6	LOCKWASHER, 3/8"
	911115	6	WASHER, plain, SAE std., 3/8"
17	640675	2	CLIP, wiring harness (3/8" diam., 17/32" bolt-hole)(1 less used prior to loader #14577)
	035221	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"
	910244	1	WASHER, plain, SAE std., 1/2"
18	639314	4	CLIP, wiring harness (3/8" diam., 13/32" bolt-hole)
	035167	1	CAPSCREW, 3/8"NF x 7/8"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
19	620063	1	CLIP, front wiring harness (1/2" diam., 17/32" bolt-hole)
	035221	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"
	910244	1	WASHER, SAE std., 1/2"
19A	613231	1	BLOCK, spacing, clip (Effective with loader #14577)
20	638243	1	TIP, cable socket (rubber)(Used only on units without head lights)
21	------	-	SWITCH, starter (See INSTRUMENTS)
22	------	-	AMMETER, (See INSTRUMENTS)
23	------	-	SWITCH, lights (See INSTRUMENTS)
24	------	-	SWITCH, safety (See SPEED CONTROL LINKAGE)

*Special equipment



LIGHTS AND WIRING (Model 21GS)

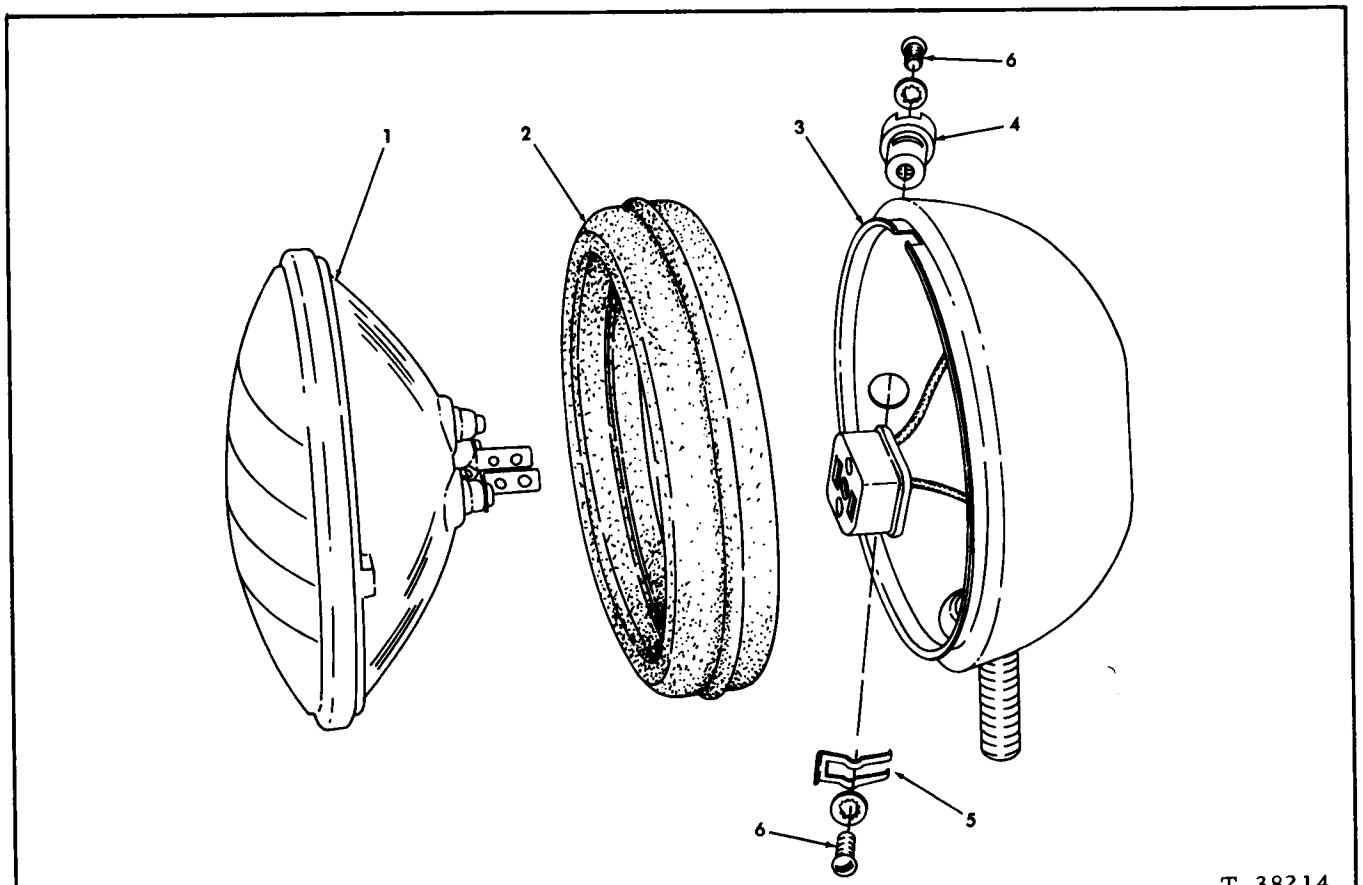
USAGE: Model 21GS

ITEM	PART NO.	QTY.	DESCRIPTION
1	638283	2	LIGHT ASSY., head (See page 291 for parts)(Early units)
	621429	2	LIGHT ASSY., head (See page 294 for parts)(Late units)
	900818	2	WASHER, plain, U.S. std., 1/2"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
2	075535	2	WASHER, head light mounting
3	093195	2	BRACKET, head light mounting
4	035336	4	CAPSCREW, 3/8"NF x 1-3/4"
	904206	4	LOCKWASHER, 3/8"
5	044973	4	WASHER, plain
6	649189	1	CABLE, head light, upper section
7	649202	1	CABLE, head light, lower section
8	649206	1	HARNESS, wiring, front section
9	208960	1	FUSE, cartridge type, 1/4" x 1-1/4", 20 amperes
10	649236	1	HARNESS, wiring, rear section
11	622417	2	CABLE, ammeter to starter switch and light switch
12	648718	1	HARNESS, wiring, safety switch
13	649356	1	ANGLE, clip supporting, front wiring harness
14	094422	4	CLIP, wiring harness (21/32" diam., 13/32" bolt-hole)
	035167	1	CAPSCREW, 3/8"NF x 7/8"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
	911041	1	NUT, 3/8"NF
15	641566	1	CLIP, rear wiring harness (5/8" diam., 9/16" bolt-hole)
	916401	1	CAPSCREW, 1/4"NF x 1"
	904204	1	LOCKWASHER, 1/4"
	911114	1	WASHER, plain, SAE std., 1/4"
16	640677	9	CLIP, head light cables (1/4" diam., 13/32" bolt-hole)
	036032	1	CAPSCREW, 3/8"NF x 3/4"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
17	640676	3	CLIP, safety switch wiring harness (5/16" diam., 13/32" bolt-hole)
	035244	2	CAPSCREW, 3/8"NC x 3/4"
	904206	2	LOCKWASHER, 3/8"
	911115	2	WASHER, plain, SAE std., 3/8"
18	639314	2	CLIP, front wiring harness (3/8" diam., 13/32" bolt-hole)
	035244	1	CAPSCREW, 3/8"NC x 3/4"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
	911026	1	NUT, 3/8"NC

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
19	624508	1	CLIP, front wiring harness (1/2" diam., 17/32" bolt-hole)
	035221	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"
	910244	1	NUT, 1/2"NC
20	637741	1	CLIP, front wiring harness (1/2" diam., 17/32" bolt-hole)
	035221	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"
	910244	1	NUT, 1/2"NC
21	638283	1	LIGHT ASSY. (See page 291 for parts)(Early units)
	621429	1	LIGHT ASSY. (See page 294 for parts)(Late units)
	900818	1	WASHER, plain, U.S. std., 1/2"
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
22	094630	1	BRACKET, mounting
	911044	2	NUT, 5/8"NF
23	075535	1	WASHER, mounting
24	643622	1	CABLE, rear section (57" long)
25	208960	1	FUSE, cartridge type (1/4" x 1-1/4", 20 amperes)
26	643621	1	CABLE, front section (122" long)
27	644883	3	CLIP, cable (3/16" diam., 17/32" bolt-hole)
	916268	2	CAPSCREW, 3/8"NC x 5/8"
	035244	1	CAPSCREW, 3/8"NC x 3/4"
	904206	3	LOCKWASHER, 3/8"
	911115	3	WASHER, plain, SAE std., 3/8"
28	------	-	SWITCH, starter (See INSTRUMENTS)
29	------	-	AMMETER (See INSTRUMENTS)
30	------	-	SWITCH, lights (See INSTRUMENTS)
31	------	-	SWITCH, safety (See SPEED CONTROL LINKAGE)

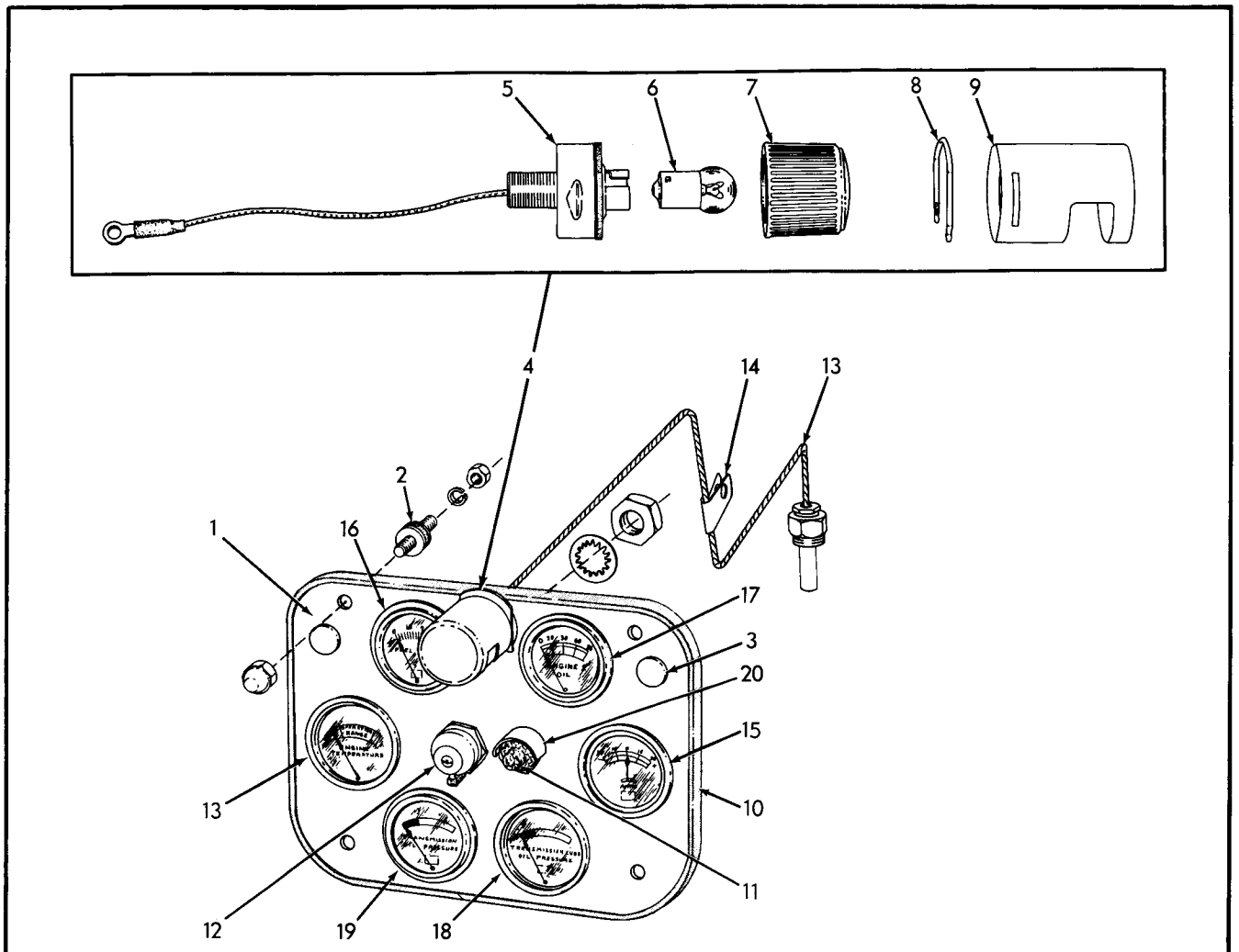
"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



LIGHT ASSEMBLY 638283

USAGE: See pages 287, 289, 324

ITEM	PART NO.	QTY.	DESCRIPTION
			NOTE: Quantities indicated below are for one (1) light only
1	182763	1	SEALED BEAM (24 volt)
2	638282	1	RING, retaining (rubber)
3	------	1	BODY ASSEMBLY (Includes wiring. Not serviced separately)
4	055589	1	TERMINAL KIT (Includes items 5 and 6)
5	048922	1	SPRING, retaining, terminal bushing
6	912731	2	SCREW, terminal (#8-32NC x 5/16")
	912739	2	LOCKWASHER, internal teeth, #8

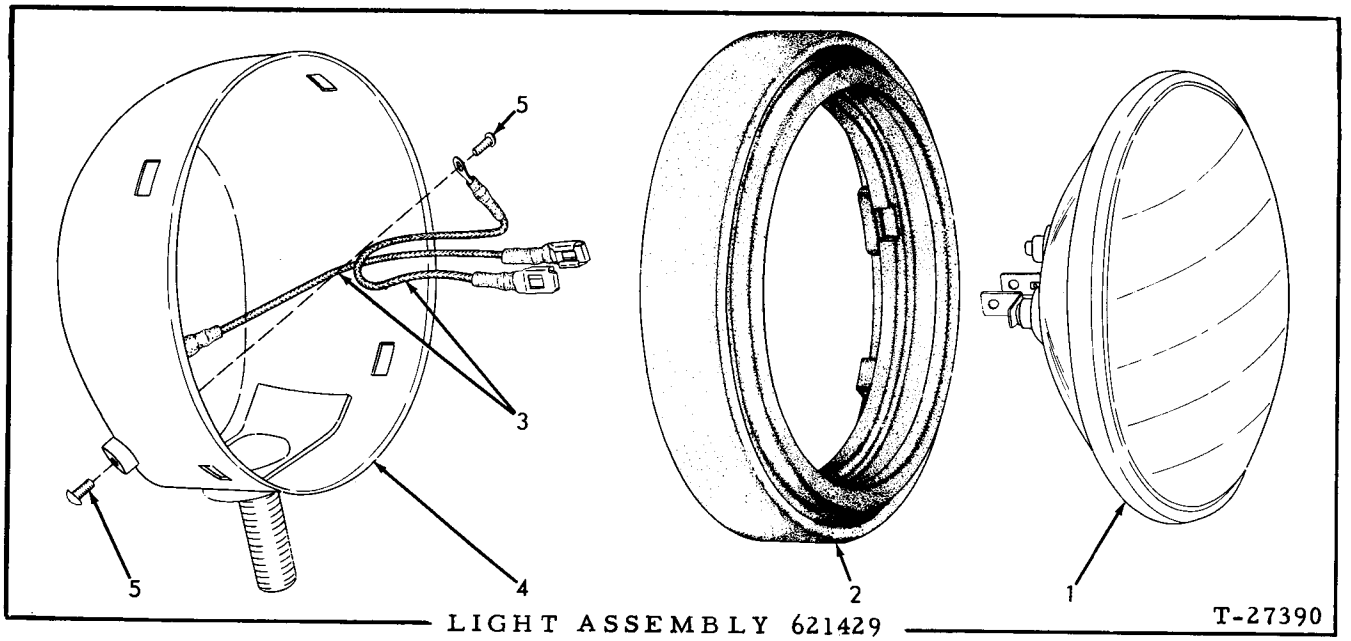


INSTRUMENTS

ITEM	PART NO.	QTY.	DESCRIPTION
1	630207	1	PLATE, instrument mounting
2	035244	4	CAPSCREW, 3/8"NC x 3/4" (Used prior to loader #14610
	642746	4	CUSHION, resilient } Effective with loader #14610)
	924950	4	NUT, cap, 3/8"
	904206	4	LOCKWASHER, 3/8"
	911041	4	NUT, 3/8"NF
3	921113	2	PLUG, instrument plate (11/16" switch holes)
4	659003	1	LIGHT ASSEMBLY, instrument panel (Consists of items 5 thru 10)
	911049	1	NUT, jam, 5/8"NF
	910334	1	LOCKWASHER, int-tooth, 5/8"
	924959	1	WASHER, spacing
5	------	1	BASE ASSEMBLY (Not serviced separately)
6	074452	1	BULB, instrument light (single contact, 6 c.p., 24 volts)
7	095267	1	LENS, instrument light
8	095265	1	SPRING, retaining, instrument light cover
9	659002	1	COVER, instrument light

(Continued)

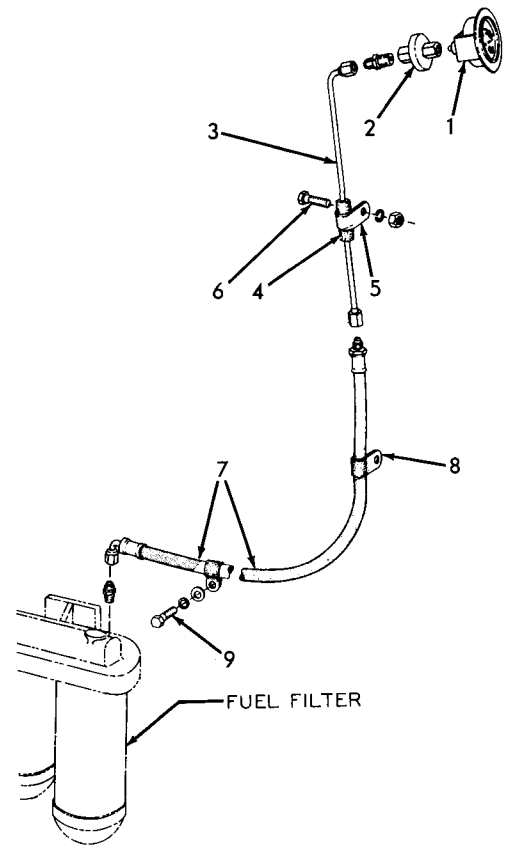
ITEM	PART NO.	QTY.	DESCRIPTION
10	642972	1	SEAL, weather, instrument panel (Effective with loader #14610)
11	240962	1	SWITCH ASSEMBLY, starter (Includes mounting nut)
12	661345	1	SWITCH ASSEMBLY, lights (Includes mounting nut)
13	658397	1	GAUGE, engine temperature (Includes mounting clamp)
14	073809	1	CLIP, temperature gauge tube (3/16" diam., 13/32" bolt-hole)
	223502	1	CLIP, temperature gauge tube (3/16" diam., 17/32" bolt-hole)
15	658348	1	AMMETER (Model 21G) } Each includes mounting clamp
	658534	1	AMMETER (Model 21GS) } Each includes mounting clamp
16	------	1	GAUGE, fuel pressure (See page 295)
17	------	1	GAUGE, engine oil pressure (See page 296)
18	------	1	GAUGE, transmission lubricating oil pressure (See page 297)
19	------	1	GAUGE, transmission clutch pressure (See page 298)
20	634677	1	GUARD, starter switch



LIGHT ASSEMBLY 621429 T-27390

USAGE: See pages 287, 289, 324

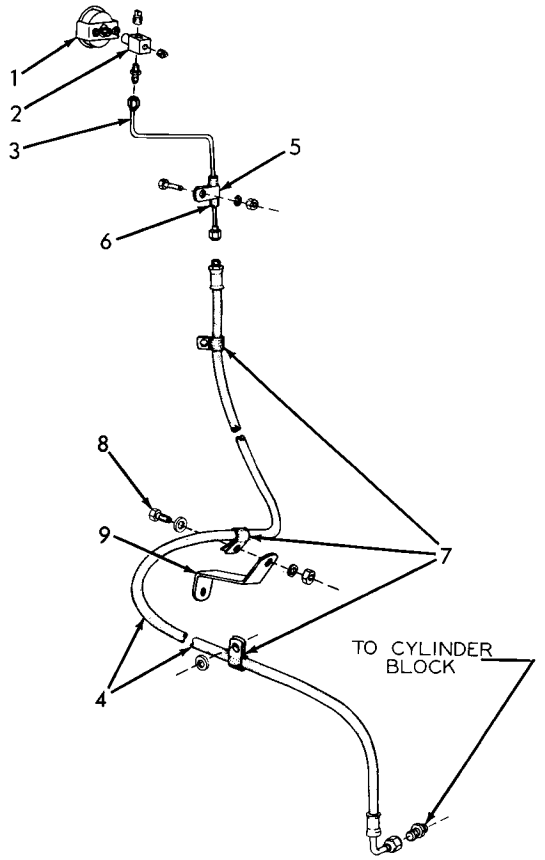
ITEM	PART NO.	QTY.	DESCRIPTION
			NOTE: Quantities indicated are for one (1) light only
1	182763	1	SEALED BEAM (24 volt)
2	621428	1	RETAINER (rubber)
3	621724	2	CABLE, sealed beam (Includes terminals)
4	------	1	BODY ASSEMBLY (Not serviced separately)
5	912731	2	SCREW, terminal (#8 - 32NC x 5/16")



T-39354

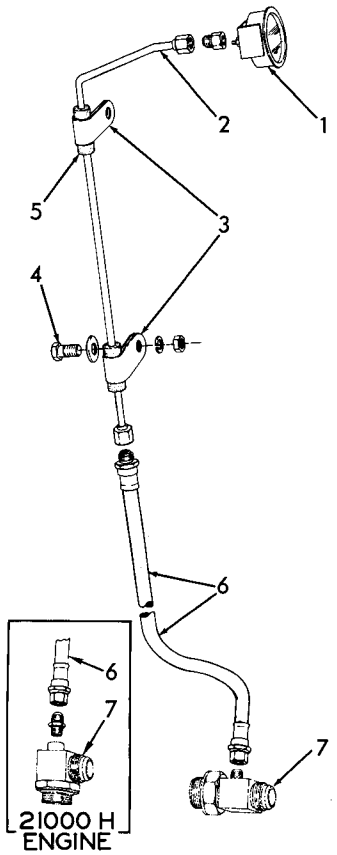
FUEL PRESSURE GAUGE

ITEM	PART NO.	QTY.	DESCRIPTION
1	658349	1	GAUGE (Includes mounting clamp)
2	069674	1	RESTRICTOR
3	655693	1	TUBE ASSEMBLY (Includes nuts)
	919140	1	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
4	093972	1	BOOT, tube protecting (rubber)
5	047381	1	CLIP, tube supporting
6	036034	1	CAPSCREW, 3/8"NF x 1"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
7	644423	1	HOSE (See HOSE PARTS)
	919766	1	CONNECTOR, flare type, 5/16" tube, 1/8"NPT male
8	644006	2	CLIP, hose supporting
9	035244	1	CAPSCREW, 3/8"NC x 3/4"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"



ENGINE OIL PRESSURE GAUGE T-39353

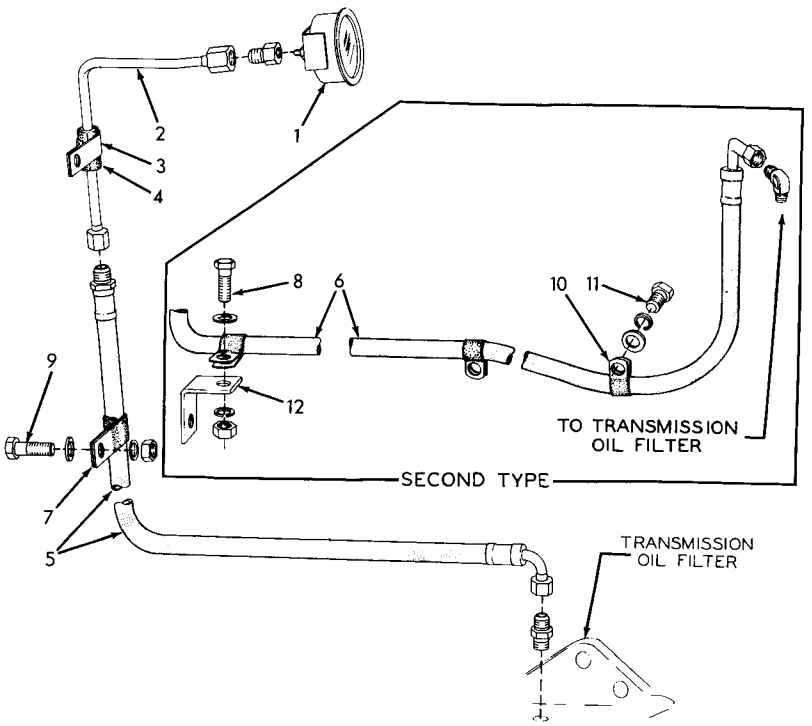
ITEM	PART NO.	QTY.	DESCRIPTION
1	658293	1	GAUGE, oil pressure (Includes mounting clamp)
2	094450	1	TEE, gauge connection
	901651	1	PLUG, pipe, 1/8"NPT
	901652	1	PLUG, pipe, 1/4"NPT (Not used when Hour Meter is installed)
3	655692	1	TUBE ASSEMBLY (Includes nuts)
	919171	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT male
4	644424	1	HOSE (See HOSE PARTS)
	919778	1	CONNECTOR, flare type,5/16" tube, 1/4"NPT male
5	047381	1	CLIP, tube supporting
	036034	1	CAPSCREW, 3/8"NF x 1"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
6	093972	1	BOOT, tube protecting (rubber)
7	644006	3	CLIP, hose supporting
8	035167	1	CAPSCREW, 3/8"NF x 7/8"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
	911115	3	WASHER, plain, SAE std., 3/8" (For spacing)(1 less used prior to loader #14614)
9	098185	1	ANGLE, hose supporting (Loaders prior to #14614)



T-70801

TRANSMISSION LUBRICATING OIL PRESSURE GAUGE

ITEM	PART NO.	QTY.	DESCRIPTION
1	658313	1	GAUGE (Includes mounting clamp)
2	655691	1	TUBE ASSEMBLY (Includes nuts)
	919174	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
3	047381	2	CLIP, tube supporting
4	036034	1	CAPSCREW, 3/8"NF x 1"
	911115	1	WASHER, plain, SAE std., 3/8"
	904206	1	LOCKWASHER, 3/8"
	911041	1	NUT, 3/8"NF
5	093972	2	BOOT, tube protecting (rubber)
6	642450	1	HOSE (See HOSE PARTS)
	919140	1	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male (Units with 21000H engine only)
7	------	1	TEE (See TRANSMISSION)

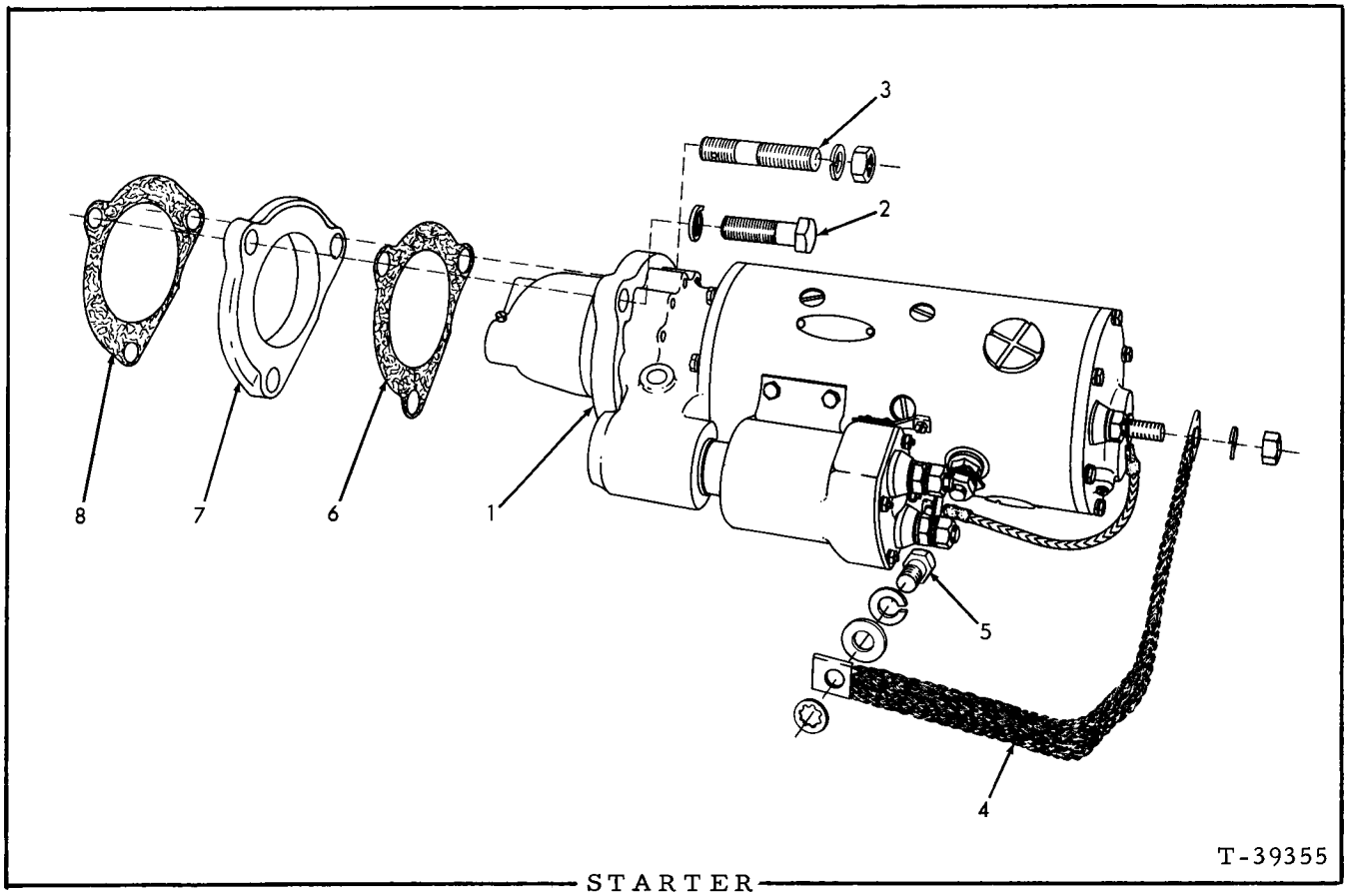


T-70600

TRANSMISSION CLUTCH PRESSURE GAUGE

* Loaders prior to serial No. 14577
** Loaders serial No. 14577 and up

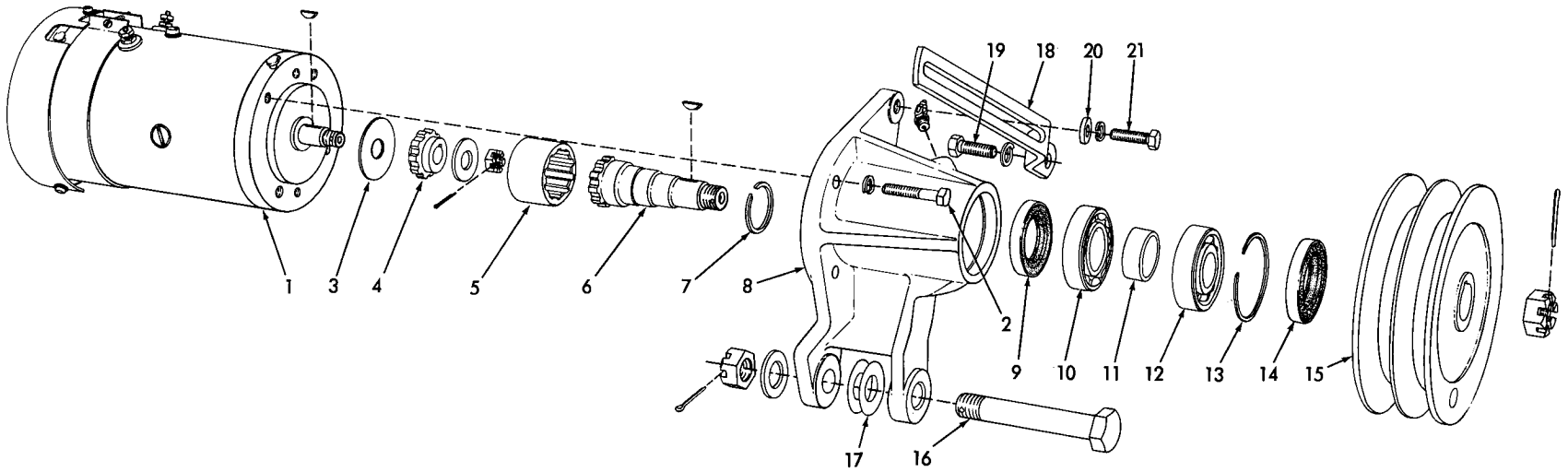
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	666185	1	1	GAUGE (Includes mounting clamp)
2	655694	1	1	TUBE ASSEMBLY (Includes nuts)
	919174	1	1	CONNECTOR, flare type, 1/4" tube, 1/8"NPT female
3	047381	1	1	CLIP, tube supporting
4	093972	1	1	BOOT, tube protecting (rubber)
5	642451	1	-	HOSE (See HOSE PARTS)
	919140	1	-	CONNECTOR, flare type, 1/4" tube, 1/4"NPT male
6	655613	-	1	HOSE (See HOSE PARTS)
	919546	-	1	ELBOW, flare type, 1/4" tube, 1/4"NPT male
7	094527	2	3	CLIP, hose supporting
8	036032	-	1	CAPSCREW, 3/8"NF x 3/4"
9	036034	1	1	CAPSCREW, 3/8"NF x 1"
	911115	1	2	WASHER, plain, SAE std., 3/8"
	904206	1	2	LOCKWASHER, 3/8"
	911041	1	2	NUT, 3/8"NF
10	624508	-	1	CLIP, hose supporting
11	035718	-	1	CAPSCREW, 1/2"NC x 3/4"
	904208	-	1	LOCKWASHER, 1/2"
	910244	-	1	WASHER, plain, SAE std., 1/2"
12	638834	-	1	ANGLE, hose supporting

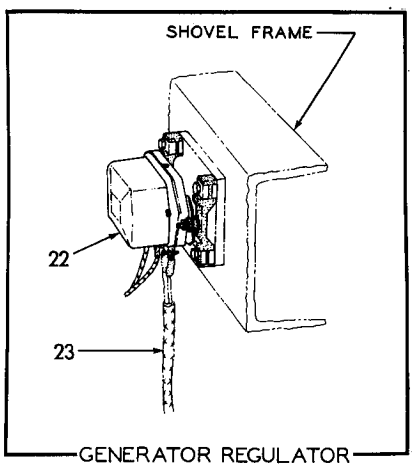


STARTER

ITEM	PART NO.	QTY.	DESCRIPTION	
1	4387529	1	MOTOR, starting (Delco-Remy #1113898) (Standard-duty)	Order parts from local United Motors Service Agency
	620350	1	MOTOR, starting (Delco-Remy #1109986) (Heavy-duty)	
2	631571	2	CAPSCREW, Nylok, 5/8"NC x 2-1/4"	
3	648262	1	STUD, Nylok, 5/8"NF x 3-1/8"	
	904209	3	LOCKWASHER, 5/8"	
	911044	1	NUT, 5/8"NF	
4	630199	1	STRAP, starter to ground	
5	070469	1	CAPSCREW, 1/2"NF x 1-1/4"	
	904208	1	LOCKWASHER, regular, 1/2"	
	910244	1	WASHER, plain, SAE std., 1/2"	
	906961	1	LOCKWASHER, int-tooth, 1/2"	
6	631573	1	GASKET, starting motor	
7	631574	1	ADAPTER, starting motor	
8	631572	1	GASKET, starting motor adapter	

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"





T-19679

GENERATOR

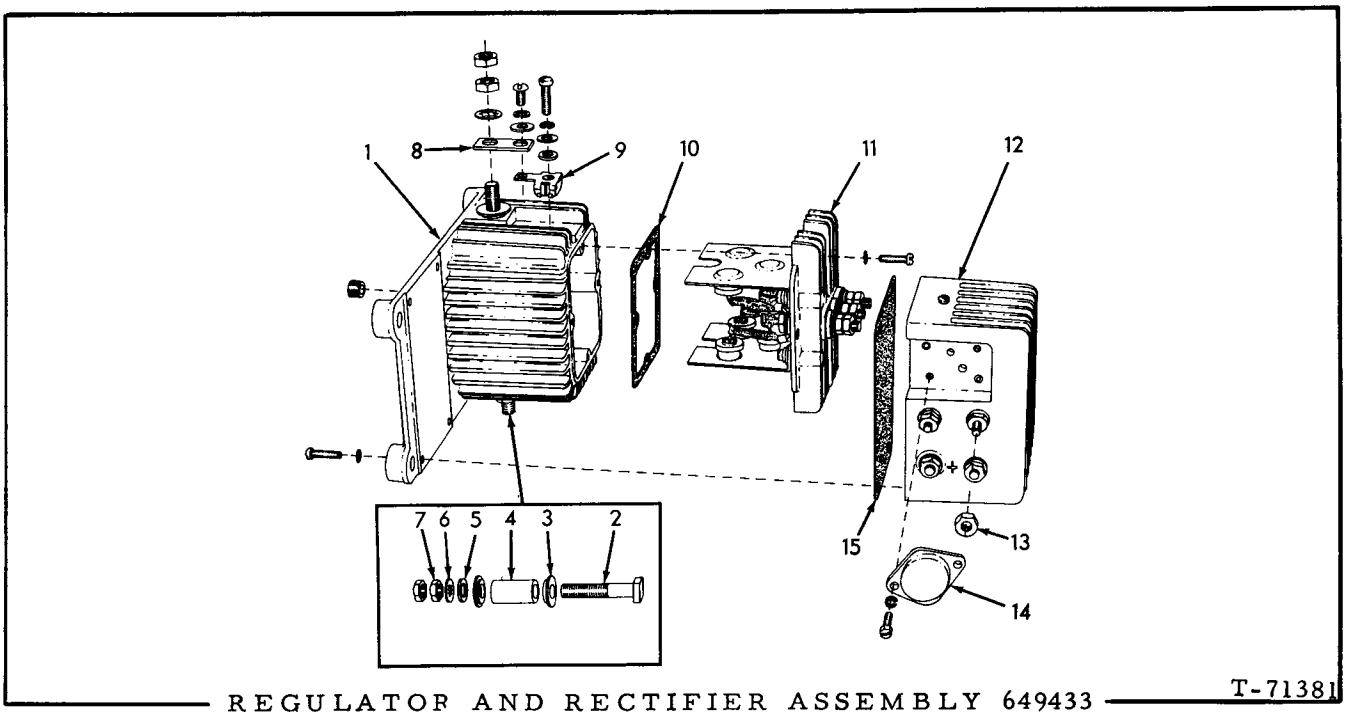
GENERATOR

USAGE: Model 21G

ITEM	PART NO.	QTY.	DESCRIPTION
			NOTE: See FAN for driving belts
1	094625	1	GENERATOR (Includes KEY 905121)(DELCO-REMY #1105997. Order parts from local United Motors Service agency)
	905121	1	KEY, #5 woodruff, 1/8" x 5/8"
2	013058	4	CAPSCREW, 3/8"NC x 1-1/4"
	904206	4	LOCKWASHER, 3/8"
3	067924	1	WASHER, generator shaft
4	067923	1	PINION, generator shaft
	910244	1	WASHER, plain, SAE std., 1/2"
	913471	1	NUT, jam, slotted, 1/2"NF
	900801	1	PIN, cotter, 3/32" x 3/4"
5	096056	1	SLEEVE, coupling
6	096092	1	SHAFT, generator drive
	913472	1	NUT, jam, slotted, 3/4"NF
	900807	1	PIN, cotter, 1/8" x 1-1/4"
	905121	1	KEY, #5 woodruff, 1/8" x 5/8"
7	052225	1	RING, snap, generator drive shaft
8	096071	1	HOUSING, generator drive
	915274	1	FITTING, lubricating, 45°, 1/8"NPT
9	067914	1	SEAL, grease, rear
10	4253863	1	BEARING, ball, rear
11	096046	1	SLEEVE, bearing spacing
12	067916	1	BEARING, ball, front
13	050291	1	RING, snap, bearing retaining
14	067913	1	SEAL, grease, front
15	096093	1	PULLEY
16	076522	1	CAPSCREW, generator drive housing
	912331	1	NUT, slotted, 3/4"NF
	900808	1	PIN, cotter, 1/8" x 1-1/2"
	910255	1	WASHER, plain, SAE std., 3/4"
17	083710	4	SHIM, housing mounting (Use as req'd)
18	083399	1	STRAP, generator adjustment
19	041250	1	CAPSCREW, generator strap (7/16"NC x 1-1/4")
	904207	1	LOCKWASHER, 7/16"
20	044973	1	WASHER, plain, generator strap
21	013058	1	CAPSCREW, generator strap (3/8"NC x 1-1/4")
	904206	1	LOCKWASHER, 3/8"

(Continued)

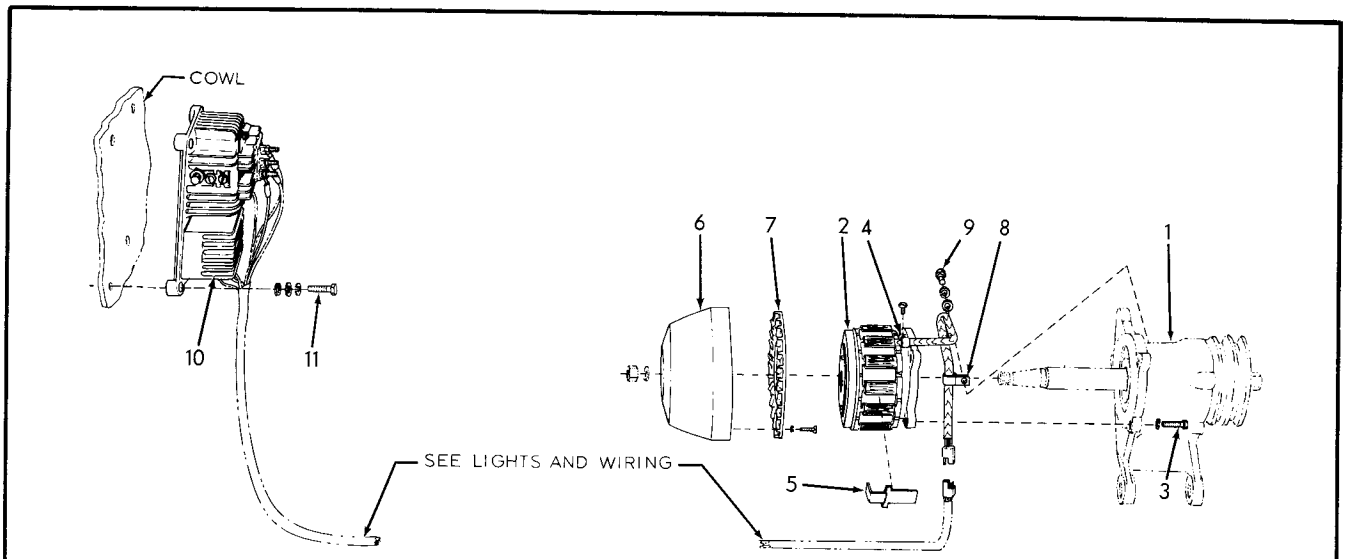
ITEM	PART NO.	QTY.	DESCRIPTION
22	185984	1	REGULATOR, voltage and current (Loaders prior to #14577)
	649520	1	REGULATOR, voltage and current (Loaders #14577 and up)
	912177	4	CAPSCREW, 1/4"NF x 1-1/4"
	904204	4	LOCKWASHER, 1/4"
	911114	4	WASHER, plain, SAE std., 1/4"
23	------	-	HARNESS (See LIGHTS AND WIRING)



REGULATOR AND RECTIFIER ASSEMBLY 649433 T-71381

USAGE: See page 304

ITEM	PART NO.	QTY.	DESCRIPTION
1	650333	1	HOUSING, rectifier
	917673	1	PLUG, pipe, hex-socket, 1/8"NPT
2	650340	2	STUD, terminal
3	650338	4	WASHER, insulating, terminal stud
4	650339	2	SLEEVE, insulating, terminal stud
5	650337	1	WASHER, terminal stud
6	650336	2	LOCKWASHER, terminal stud
7	650335	4	NUT, terminal stud
8	650334	1	CONNECTOR, fuse
	924238	1	SCREW, machine, fil-hd., brass, #10-32NF x 3/8"
	649248	1	LOCKWASHER, #10
	924327	1	WASHER, plain, brass, #10
9	650294	1	FUSE, protective
	------	1	SCREW, fil-hd.
	------	1	LOCKWASHER
	------	1	WASHER, plain
10	650330	1	GASKET, rectifier housing cover
11	650329	1	COVER ASSEMBLY, rectifier (Serviced only as a unit)
	922698	4	SCREW, machine, fil-hd., #8-32NC x 1/2"
	917395	4	LOCKWASHER, #8
12	650331	1	REGULATOR ASSEMBLY (Includes items 13 and 14)
	922698	4	SCREW, machine, fil-hd., #8-32NC x 1/2"
	917395	4	LOCKWASHER, #8
13	649199	6	NUT, regulator terminals
14	------	1	TRANSISTOR
	------	1	SCREW, machine
	------	1	LOCKWASHER
15	650332	1	GASKET, regulator

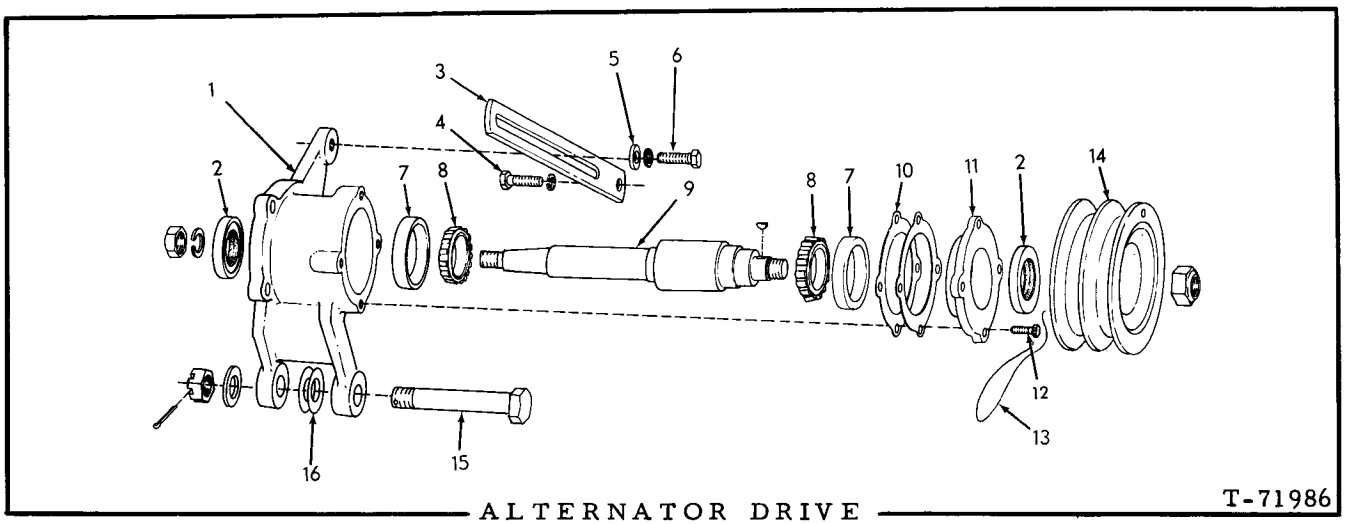


ALTERNATOR

USAGE: Model 21GS

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	DRIVE ASSEMBLY (See ALTERNATOR DRIVE)
2	649698	1	STATOR ASSEMBLY, alternator (Includes items 4 and 5)
3	037450	4	CAPSCREW, 5/16"NC x 1-1/4"
	904205	4	LOCKWASHER, 5/16"
4	650727	1	CLAMP, alternator wiring harness
	917452	1	SCREW, machine, #10-32NF x 1/2"
5	650728	1	SCRAPER
6	650701	1	ROTOR ASSEMBLY, alternator (Includes item 7)
7	650694	1	FAN, cooling
	904230	8	SCREW, machine, fil-hd., #6-32NC x 5/8"
	906963	8	LOCKWASHER, #6
8	641566	1	CLIP, alternator wiring harness
9	047478	1	CAPSCREW, 1/4"NC x 5/8"
	904204	1	LOCKWASHER, 1/4"
	911114	1	WASHER, plain, SAE std., 1/4"
10	649433	1	REGULATOR AND RECTIFIER ASSEMBLY (See page 303 for parts)
	916880	3	NUT, brass, #10-32NF } For terminals
	917216	3	NUT, brass, 1/4"NC } For terminals
	924438	1	NUT, brass, jam, 5/16"NF } For terminals
11	045295	4	CAPSCREW, 5/16"NC x 1"
	904205	4	LOCKWASHER, 5/16"
	910335	2	WASHER, plain, SAE std., 5/16"
	906959	2	LOCKWASHER, int-tooth, 5/16"

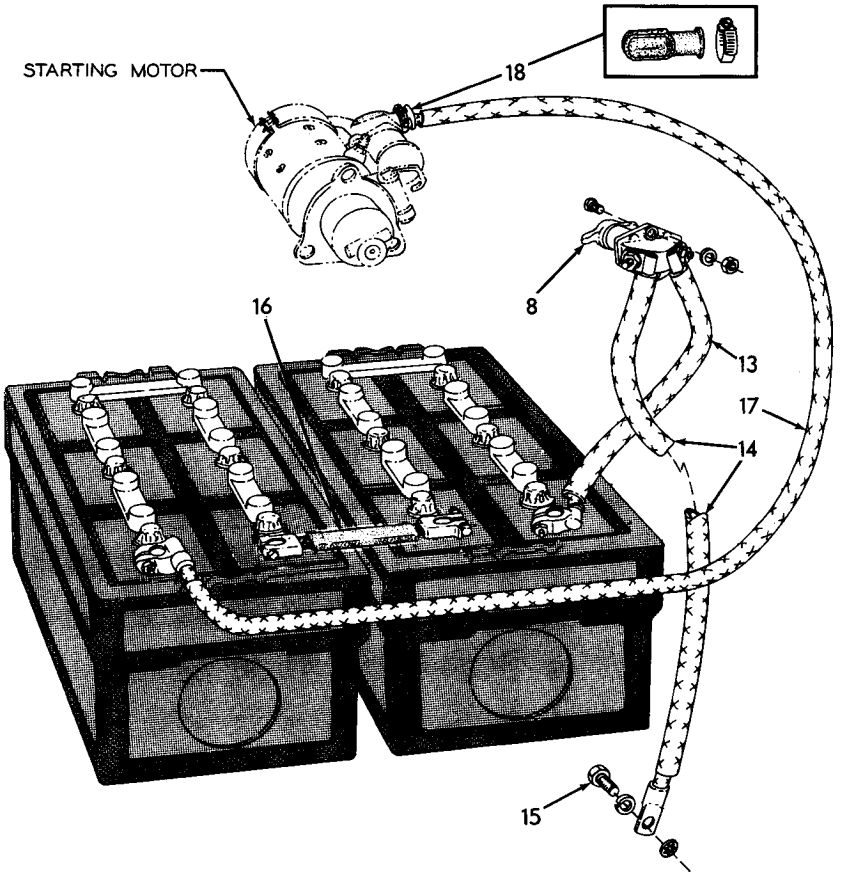
NOTE: See PAINTING AND MARKING for instruction transfer

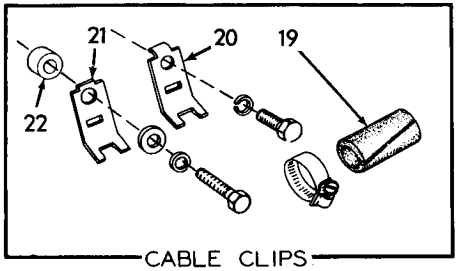


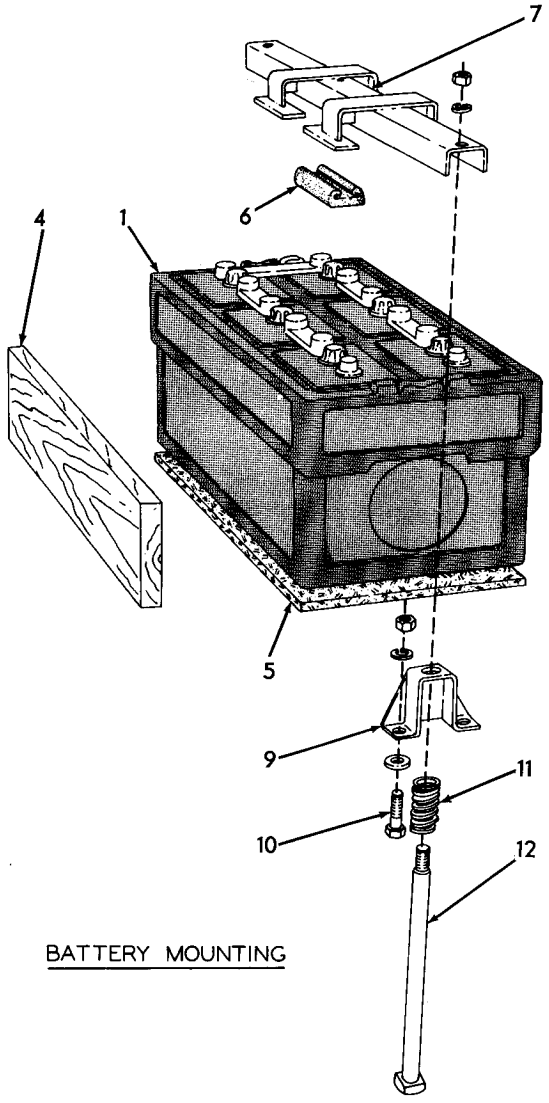
ALTERNATOR DRIVE T-71986

USAGE: Model 21GS

ITEM	PART NO.	QTY.	DESCRIPTION
			NOTE: See FAN for driving belts
1	649589	1	HOUSING, drive
2	649586	2	SEAL, oil
3	649553	1	STRAP, belt adjustment
4	041250	1	CAPSCREW, belt adjustment strap (7/16"NC x 1-1/4")
	904207	1	LOCKWASHER, 7/16"
5	044973	1	WASHER, plain, strap capscrew
6	013058	1	CAPSCREW, belt adjustment strap (3/8"NC x 1-1/4")
	904206	1	LOCKWASHER, 3/8"
7	4254704	2	CUP, bearing
8	4254703	2	CONE ASSEMBLY, bearing
9	649556	1	SHAFT, drive
	916591	1	NUT, elastic stop, 3/4"NF (Front end)
	904209	1	LOCKWASHER, 5/8" } rear end
	911044	1	NUT, 5/8"NF } rear end
	905121	1	KEY, #5 woodruff, 1/8" x 5/8"
10	649559	2	SHIM, bearing adjustment (.003") } Use as req'd
10	649560	3	SHIM, bearing adjustment (.007") } Use as req'd
10	649561	1	SHIM, bearing adjustment (.020") } Use as req'd
11	649557	1	RETAINER, bearing
12	649548	4	CAPSCREW, drilled-hd., 1/2"NC x 1"
13	037000	1	WIRE, locking, 1/16" x 16"
14	649585	1	PULLEY
15	076522	1	CAPSCREW, drive housing
	912331	1	NUT, slotted, 3/4"NF
	900808	1	PIN, cotter, 1/8" x 1-1/2"
	910255	1	WASHER, plain, SAE std., 3/4"
16	083710	4	SHIM, housing mounting (Use as req'd)







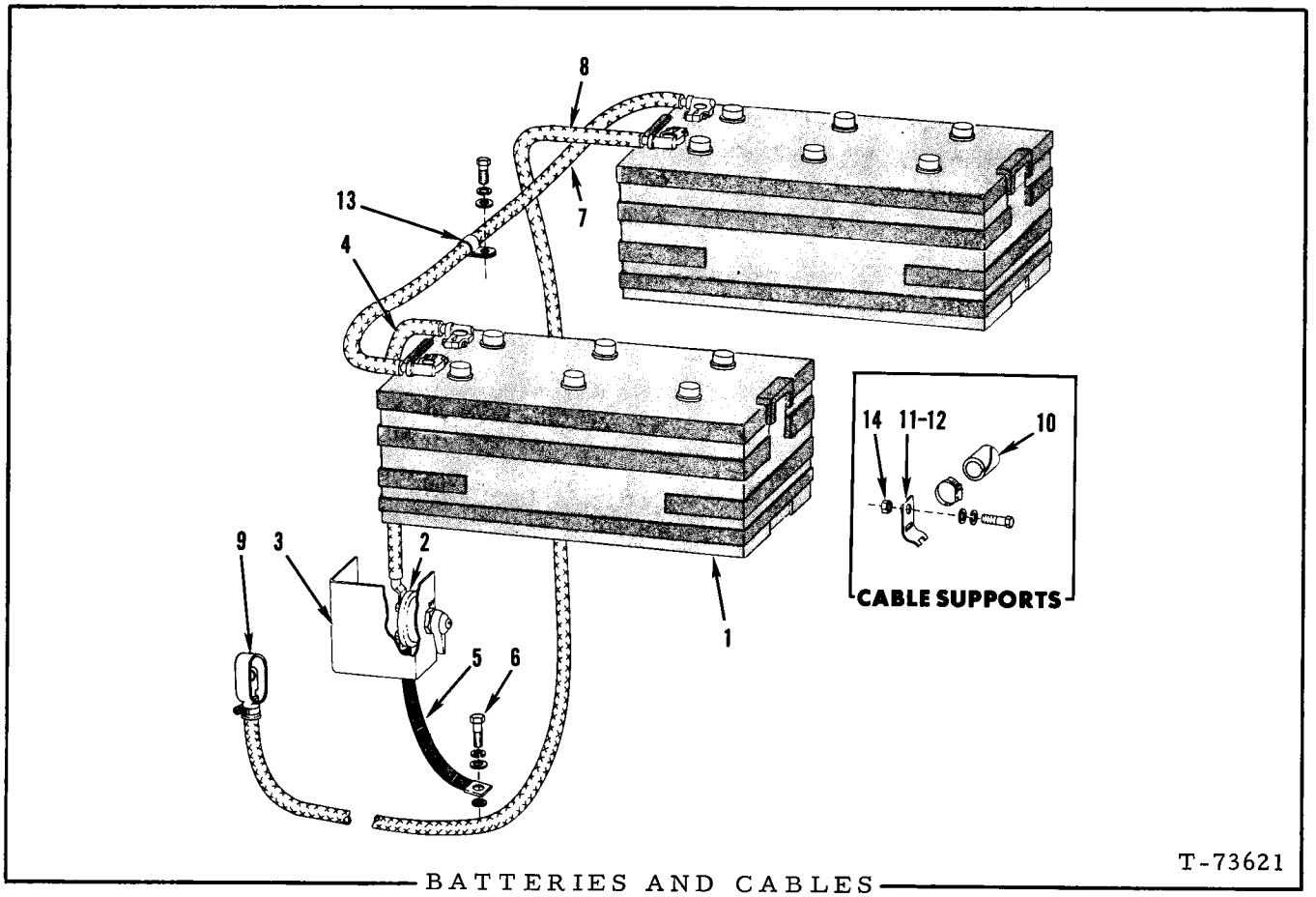
T-70561

BATTERIES AND CABLES (Model 21G. First type)

BATTERIES AND CABLES

USAGE: Model 21G loaders prior to serial No. 14577

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	2	BATTERY, storage, 12 volts, 29 plates (Prestolite" type #8D or "Exide" 8D-1145. Order from local dealer)
2	243526	1	ELECTROLYTE ("Z" pack - 6.1 quarts)
	243527	1	ELECTROLYTE ("F" pack - 5 gallons)
3	243528	1	HOSE, electrolyte dispensing (For use with 5-gal. pack)
4	------	-	BOARD, battery spacing (Procure locally as required)
5	085680	2	PAD, battery bottom
6	052791	8	BLOCK, hold-down (rubber)
7	642303	2	HOLD-DOWN, battery
8	096908	1	SWITCH ASSY., master (Serviced only as a unit)
	912789	2	CAPSCREW, 1/4"NF x 3/4"
	904204	2	LOCKWASHER, 1/4"
	911040	2	NUT, 1/4"NF
9	081867	2	BRACKET, hold-down bolt
10	035018	4	CAPSCREW, 1/2"NF x 1-1/2"
	064531	4	WASHER, plain
	904208	4	LOCKWASHER, 1/2"
	911043	4	NUT, 1/2"NF
			} For outer battery only
11	081404	4	SPRING, hold-down bolt
12	642351	4	BOLT, hold-down
	904208	4	LOCKWASHER, 1/2"
	911043	4	NUT, 1/2"NF
13	096918	1	CABLE, battery to master switch (15-1/2" long)
14	627428	1	CABLE, master switch to ground (58" long)
15	036034	1	CAPSCREW, 3/8"NF x 1"
	904206	1	LOCKWASHER, 3/8"
	906960	1	LOCKWASHER, internal teeth, 3/8"
16	644648	1	STRAP, battery connecting (6-1/2" long)
17	646406	1	CABLE, battery to starter (172" long)
18	076572	1	BOOT, protecting, starter terminal
	921912	1	CLAMP, hose, 1-1/16" to 2" diam.
19	076469	11	BOOT, cable protecting
	921912	11	CLAMP, hose, 1-1/16" to 2" diam.
20	633653	7	CLIP, cable supporting
	035167	6	CAPSCREW, 3/8"NF x 7/8"
	903775	1	CAPSCREW, 3/8"NC x 7/8"
	904206	7	LOCKWASHER, 3/8"
21	084895	2	CLIP, cable supporting
	036039	1	CAPSCREW, 3/8"NF x 1-3/8"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
	064531	1	WASHER, plain (For spacing)
22	087082	1	SPACER, cable supporting clip



BATTERIES AND CABLES

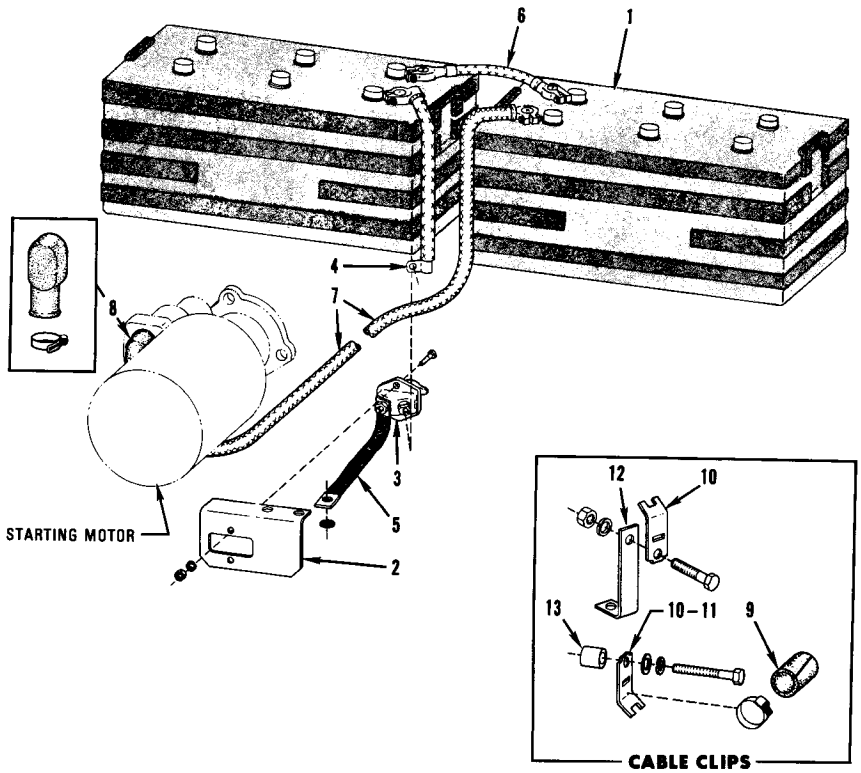
USAGE: Model 21G loaders serial No. 14577 and up

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	2	BATTERY, storage, 12 volts, 29 plates ("Prestolite" type #8D or "Exide" 8D-1145. Order from local dealer)(Loaders prior to #
	250545	2	BATTERY, storage, 12 volts, dry-charged(Each requires 15.7 qts. electrolyte)(Loaders # and up)
1A	243526	1	ELECTROLYTE ("Z" pack - 6.1 quarts)
	243527	1	ELECTROLYTE ("F" pack - 5 gallons)
1B	243528	1	HOSE, electrolyte dispensing (For use with 5-gal. pack)
2	643726	1	SWITCH ASSY., master (Serviced only as a unit)
3	648960	1	ANGLE, mounting, master switch
4	648971	1	CABLE, battery to master switch (16-7/8" long)
5	073480	1	STRAP, master switch to ground
6	035221	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"
	910244	1	WASHER, plain, SAE std., 1/2"
	906961	1	LOCKWASHER, internal teeth, 1/2"
7	648949	1	CABLE, battery connecting (67-1/2" long)

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
8	648948	1	CABLE, battery to starter (77-1/2" long)
9	076572	1	BOOT, protecting, starter terminal
	921912	1	CLAMP, hose, 1-1/16" to 2" diam.
10	076469	5	BOOT, cable protecting
	921912	5	CLAMP, hose, 1-1/16" to 2" diam.
11	633653	2	CLIP, cable supporting
	035244	2	CAPSCREW, 3/8"NC x 3/4"
	904206	2	LOCKWASHER, 3/8"
12	084895	1	CLIP, cable supporting
	036039	1	CAPSCREW, 3/8"NF x 1-3/8"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
13	094467	1	CLIP, cable supporting
	035244	1	CAPSCREW, 3/8"NC x 3/4"
	904206	1	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
14	087082	1	SPACER, cable supporting clip

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



T-71283

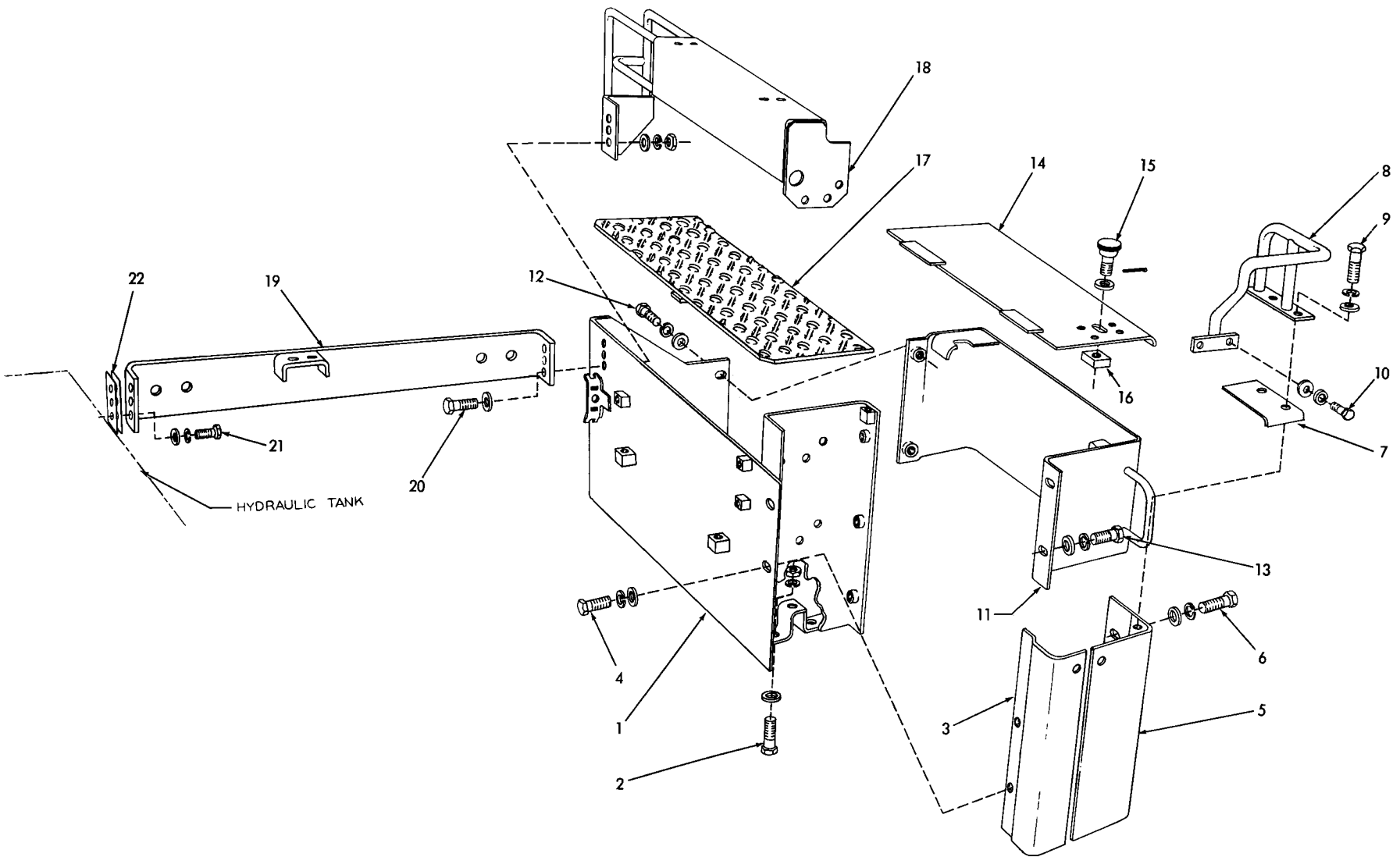
BATTERIES AND CABLES

USAGE: Model 21GS only

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	2	BATTERY, storage, 12 volts, 25 plates ("Prestolite" type #8D or "Exide" 8D-1145, Order from local dealer)(Loaders prior to #)
	250545	2	BATTERY, storage, 12 volts, dry-charged (Each requires 15.7 qts. electrolyte)(Loaders # and up)
1A	243526	1	ELECTROLYTE ("Z" pack-6.1 quarts)
	243527	1	ELECTROLYTE ("F" pack-5 gallons)
1B	243528	1	HOSE, electrolyte dispensing (For use with 5 gal. pack)
2	629071	1	ANGLE, switch supporting
3	096908	1	SWITCH ASSY., master (Serviced only as a unit)
	912789	2	CAPSCREW, 1/4" NF x 3/4"
	904204	2	LOCKWASHER, 1/4"
	911040	2	NUT, 1/4"NF
4	649198	1	CABLE, battery to master switch (15-1/2" long)
5	096653	1	STRAP, master switch to ground (10-1/2" long)
	906961	1	LOCKWASHER, internal teeth, 1/2"
6	086565	1	CABLE, battery connecting (11" long)

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION
7	649207	1	CABLE, battery to starter (172-1/4" long)
8	076572	1	BOOT, protecting, starter terminal
	921912	1	CLAMP, hose, 1-1/16" to 2" diam.
9	076469	7	BOOT, cable protecting
	921912	7	CLAMP, hose, 1-1/16" to 2" diam.
10	633653	5	CLIP, cable supporting
	036032	1	CAPSCREW, 3/8"NF x 3/4"
	035244	3	CAPSCREW, 3/8"NC x 3/4"
	036039	1	CAPSCREW, 3/8"NF x 1-3/8"
	904206	5	LOCKWASHER, 3/8"
	911115	1	WASHER, plain, SAE std., 3/8"
11	084895	2	CLIP, cable supporting
	035221	1	CAPSCREW, 1/2"NC x 1"
	904208	1	LOCKWASHER, 1/2"
	911028	1	NUT, 1/2"NC
12	632436	1	ANGLE, clip supporting
13	087082	1	SPACER, cable supporting clip



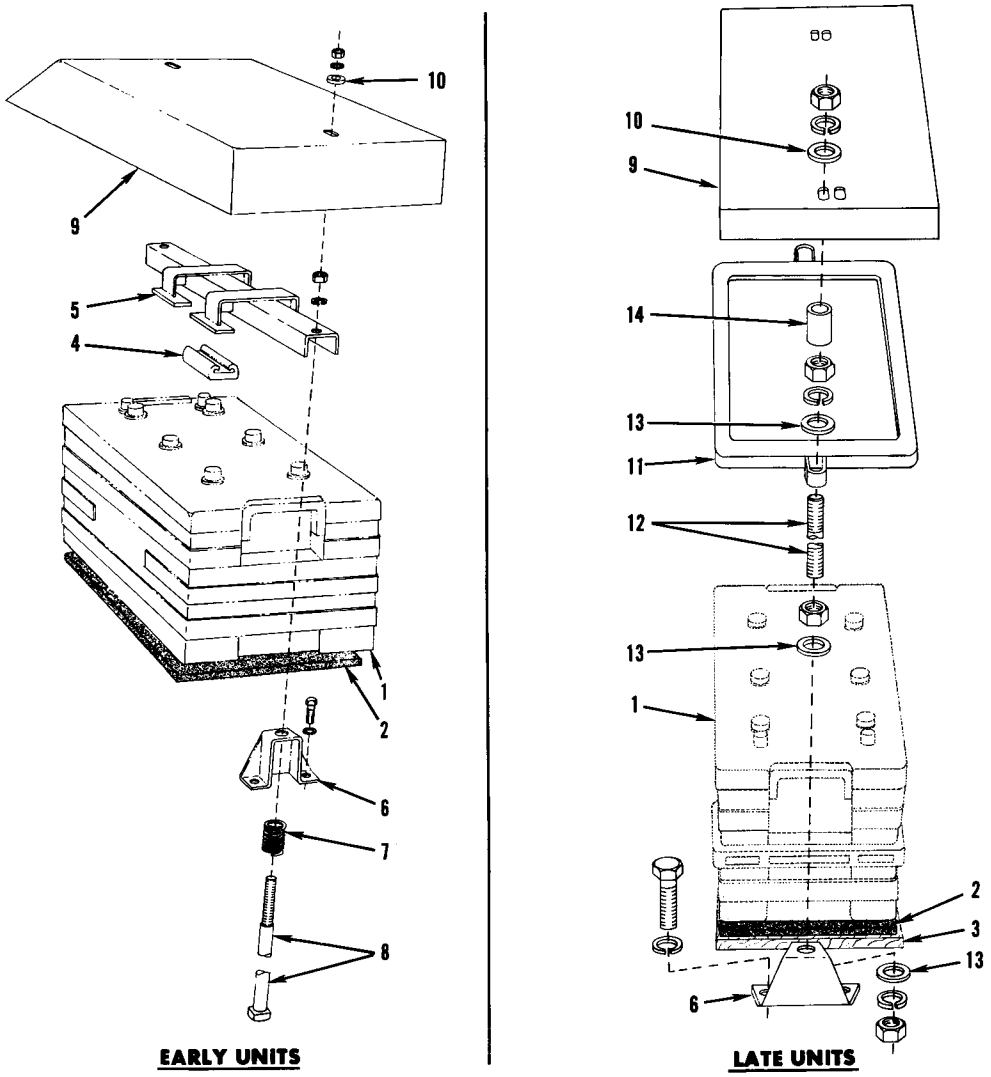
BATTERY BOX (Model 21G, First type)

BATTERY BOX

USAGE: Model 21G loaders prior to serial No. 14577

ITEM	PART NO.	QTY.	DESCRIPTION
1	642279	1	BOX, battery
2	035018	8	CAPSCREW, 1/2"NF x 1-1/2"
	064531	8	WASHER, plain
	904208	8	LOCKWASHER, 1/2"
	911043	8	NUT, 1/2"NF
3	642273	1	COVER, end, inner
4	070469	2	CAPSCREW, 1/2"NF x 1-1/4"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
5	645742	1	COVER, end, outer
6	070469	1	CAPSCREW, 1/2"NF x 1-1/4"
	904208	1	LOCKWASHER, 1/2"
	064531	1	WASHER, plain
7	642004	1	COVER, top, front section
8	642005	1	GUARD, speed shift lever
9	012992	2	CAPSCREW, 3/8"NF x 1-1/4"
10	070960	2	CAPSCREW, 3/8"NC x 1-1/2"
	904206	4	LOCKWASHER, 3/8"
	044973	4	WASHER, plain
11	642202	1	COVER, side
12	070469	2	CAPSCREW, 1/2"NF x 1-1/4"
13	035018	2	CAPSCREW, 1/2"NF x 1-1/2"
	904208	4	LOCKWASHER, 1/2"
	064531	4	WASHER, plain
14	642124	1	COVER, top, rear section (outer)
15	091976	1	KNOB, retaining, battery box cover
	910244	1	WASHER, plain, SAE std., 1/2"
	900802	1	PIN, cotter, 3/32" x 1"
16	624488	1	BLOCK, tapped
17	642252	1	COVER, top, rear section (inner)
18	642060	1	REST, arm
19	639828	1	SUPPORT, battery box
20	035067	3	CAPSCREW, 1/2"NF x 2"
	047063	6	WASHER, plain
	904208	3	LOCKWASHER, 1/2"
	911043	3	NUT, 1/2"NF
21	035073	3	CAPSCREW, 1/2" NF x 1-3/4"
	904208	3	LOCKWASHER, 1/2"
	064531	3	WASHER, plain
22	644928	2	SHIM, support

NOTE: See PAINTING AND MARKING for transfers



BATTERY MOUNTING

USAGE: Model 21G loaders serial No. 14577 and up

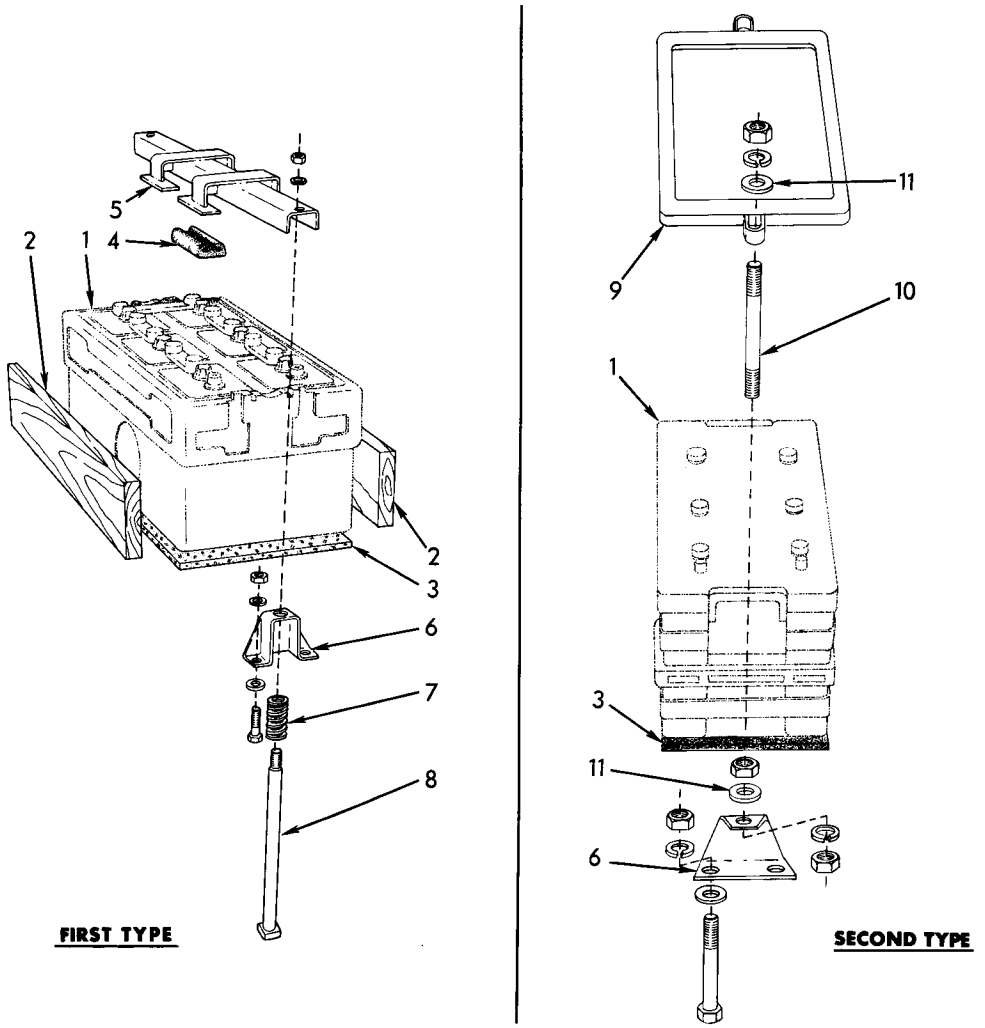
* Loaders serial No. 14577 thru
** Loaders serial No. and up

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	------	2	2	BATTERY, storage (See BATTERIES AND CABLES)
2	085680	2	2	PAD, battery bottom
3	------	-	2	BOARD, battery bottom (3/4" x 8-5/8" x 19-3/4")(Procure locally)
4	052791	8	-	BLOCK, hold-down (rubber)
5	642303	2	-	HOLD-DOWN, battery

(Continued)

BATTERY MOUNTING (Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
6	081867	4	-	BRACKET, hold-down bolt
	663795	-	2	BRACKET, hold-down, rear
	663796	-	2	BRACKET, hold-down, front
	916311	8	8	CAPSCREW, 1/2"NC x 1-1/4"
	904208	8	8	LOCKWASHER, 1/2"
7	081404	4	-	SPRING, hold-down bolt
8	648958	2	-	BOLT, hold-down, front (short)
	648959	2	-	BOLT, hold-down, rear (long)
	904208	4	-	LOCKWASHER, 1/2"
	911043	4	-	NUT, 1/2"NF
9	648935	2	-	COVER, battery
	663784	-	2	COVER, battery
10	064531	2	2	WASHER, plain
	904208	4	4	LOCKWASHER, 1/2"
	911043	4	-	NUT, 1/2"NF
	911028	-	4	NUT, 1/2"NC
11	663727	-	2	HOLD-DOWN, battery
12	663804	-	2	ROD, battery hold-down, rear (10-3/8" long)
	663803	-	2	ROD, battery hold-down, front (8-1/8" long)
	904208	-	8	LOCKWASHER, 1/2"
	911028	-	12	NUT, 1/2"NC
13	064531	-	12	WASHER, plain, battery hold-down rod
14	065785	-	4	BLOCK, spacing, battery cover



BATTERY MOUNTING

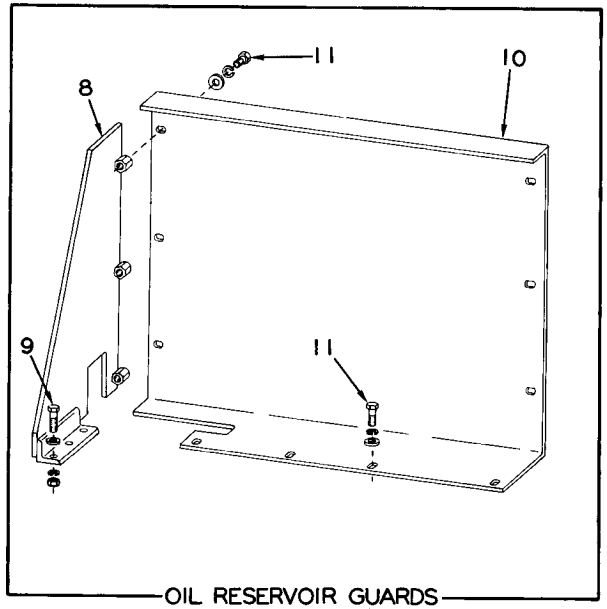
USAGE: Model 21GS only

* Loaders prior to serial No.
** Loaders serial No. and up

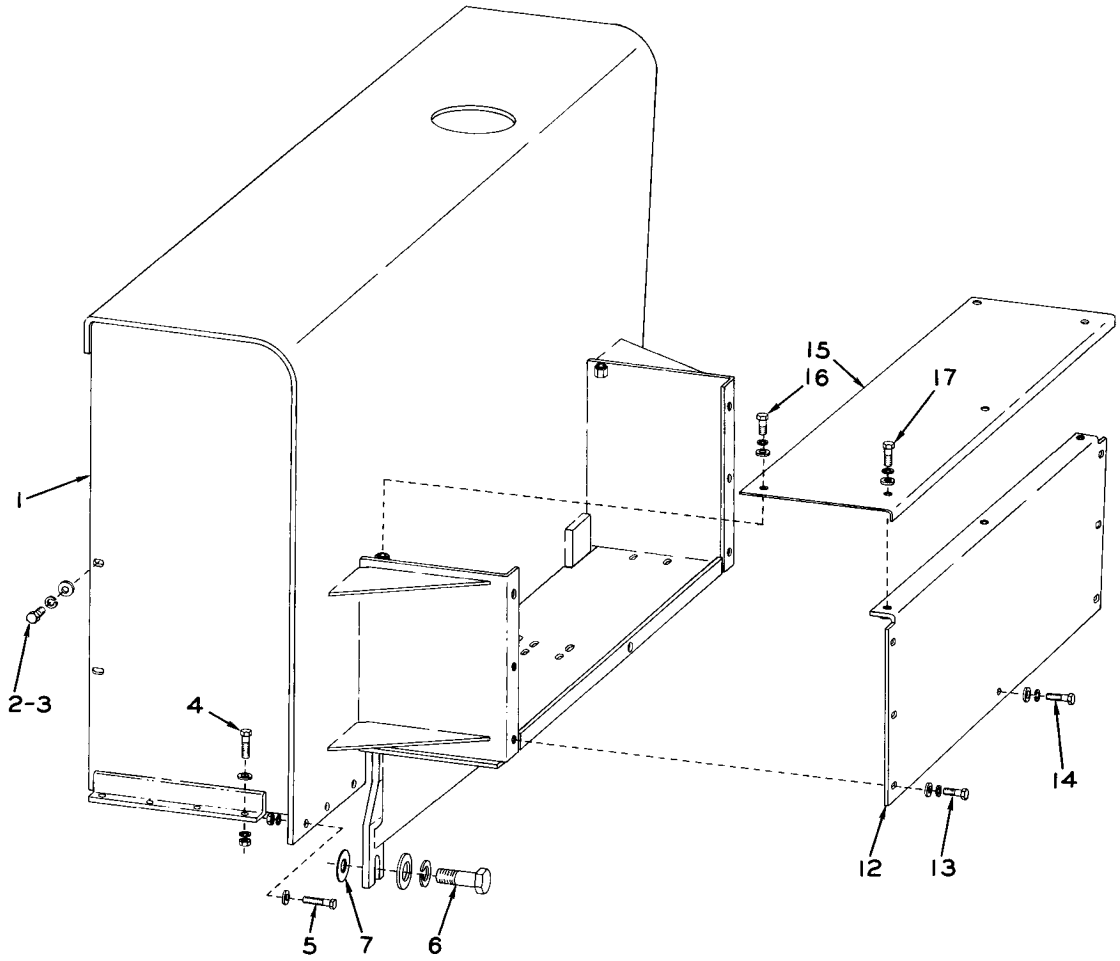
ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	------	2	-	BATTERY, storage (See BATTERIES AND CABLES)
2	------	-	-	BOARD, battery spacing (Procure locally as required)
3	085680	2	2	PAD, battery bottom
4	052791	8	-	BLOCK, hold-down (rubber)
5	642303	2	-	HOLD-DOWN, battery

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
6	081867	4	-	BRACKET, hold-down bolt
	662745	-	4	BRACKET, hold-down rod
	915987	8	8	CAPSCREW, 1/2"NC x 1-1/2"
	064531	6	6	WASHER, plain
	904208	8	8	LOCKWASHER, 1/2"
	911028	8	8	NUT, 1/2"NC
7	081404	4	-	SPRING, hold-down bolt
8	642351	4	-	BOLT, hold-down
	904208	4	-	LOCKWASHER, 1/2"
	911043	4	-	NUT, 1/2"NF
9	663727	-	1	HOLD-DOWN, battery
10	619814	-	4	ROD, battery hold-down
	904208	-	8	LOCKWASHER, 1/2"
	911043	-	12	NUT, 1/2"NF
11	064531	-	8	WASHER, plain, battery hold-down rod



OIL RESERVOIR GUARDS



T-75062

FUEL TANK GUARD AND BATTERY BOX

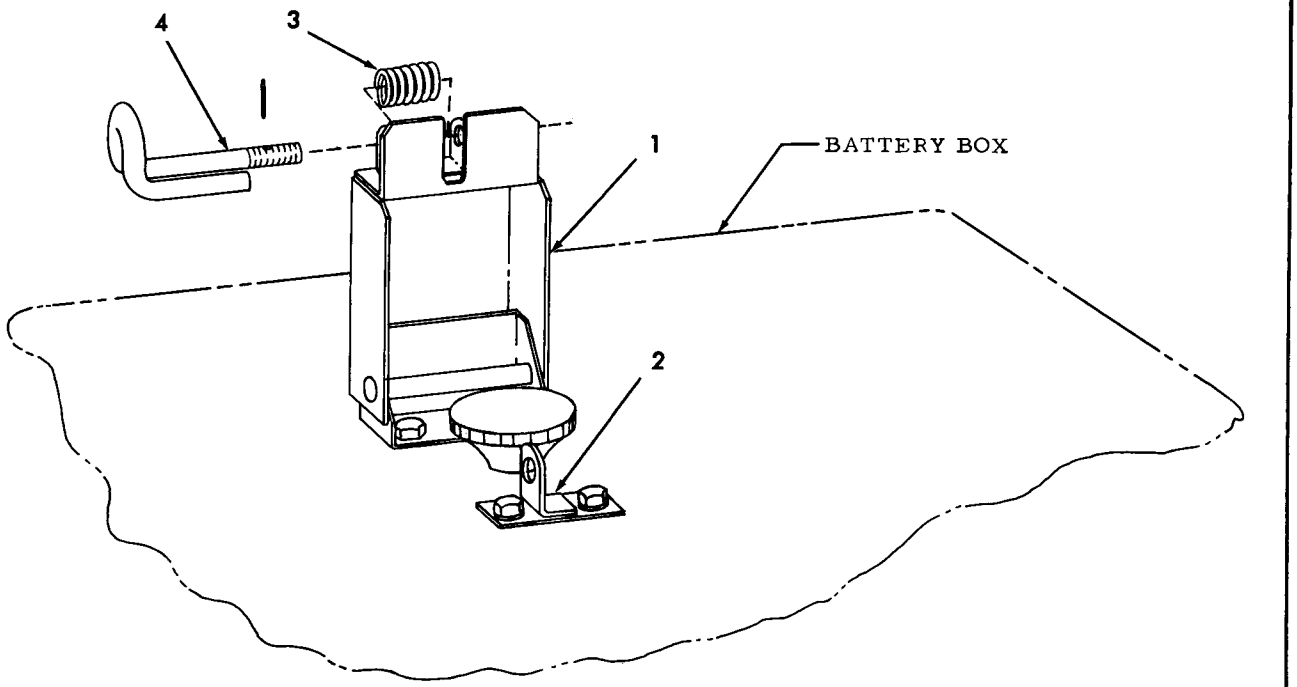
FUEL TANK GUARD AND BATTERY BOX

USAGE: Model 21GS

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	GUARD, tank (Used prior to loader #14802. Order GUARD 658229 and modify)
1	658229	1	GUARD, tank (Effective with loader #14802)
2	035190	2	CAPSCREW, 1/2"NC x 1-1/2"
	904208	2	LOCKWASHER, 1/2"
	064531	2	WASHER, plain
3	646661	2	NUT, 1/2"NC (Requires welding to left seat support)
4	035236	5	CAPSCREW, 1/2"NC x 1-3/4"
5	035712	5	CAPSCREW, 1/2"NC x 2-1/4"
	064531	10	WASHER, plain
	904208	10	LOCKWASHER, 1/2"
	911028	10	NUT, 1/2"NC
6	066794	2	CAPSCREW, 1-1/4"NF x 3-1/4"
	904210	2	LOCKWASHER, 1-1/4"
	054889	4	WASHER, plain
7	082604	6	WASHER, shimming (Use as required)
8	648329	1	PLATE, guarding, oil reservoir, front
9	035236	3	CAPSCREW, 1/2"NC x 1-3/4"
	064531	3	WASHER, plain
	904208	3	LOCKWASHER, 1/2"
	911028	3	NUT, 1/2"NC
10	648309	1	COVER, side, oil reservoir
11	035190	10	CAPSCREW, 1/2"NC x 1-1/2"
	904208	10	LOCKWASHER, 1/2"
	064531	10	WASHER, plain
12	648680	1	COVER, battery compartment,, rear
13	035190	6	CAPSCREW, 1/2"NC x 1-1/2"
14	035236	1	CAPSCREW, 1/2"NC x 1-3/4"
	904208	7	LOCKWASHER, 1/2"
	064531	7	WASHER, plain
15	648677	1	COVER, battery compartment, top
16	035061	2	CAPSCREW, 1/2"NC x 1-1/4"
17	035190	3	CAPSCREW, 1/2"NC x 1-1/2"
	904208	5	LOCKWASHER, 1/2"
	064531	5	WASHER, plain

NOTE: See PAINTING AND MARKING for transfers

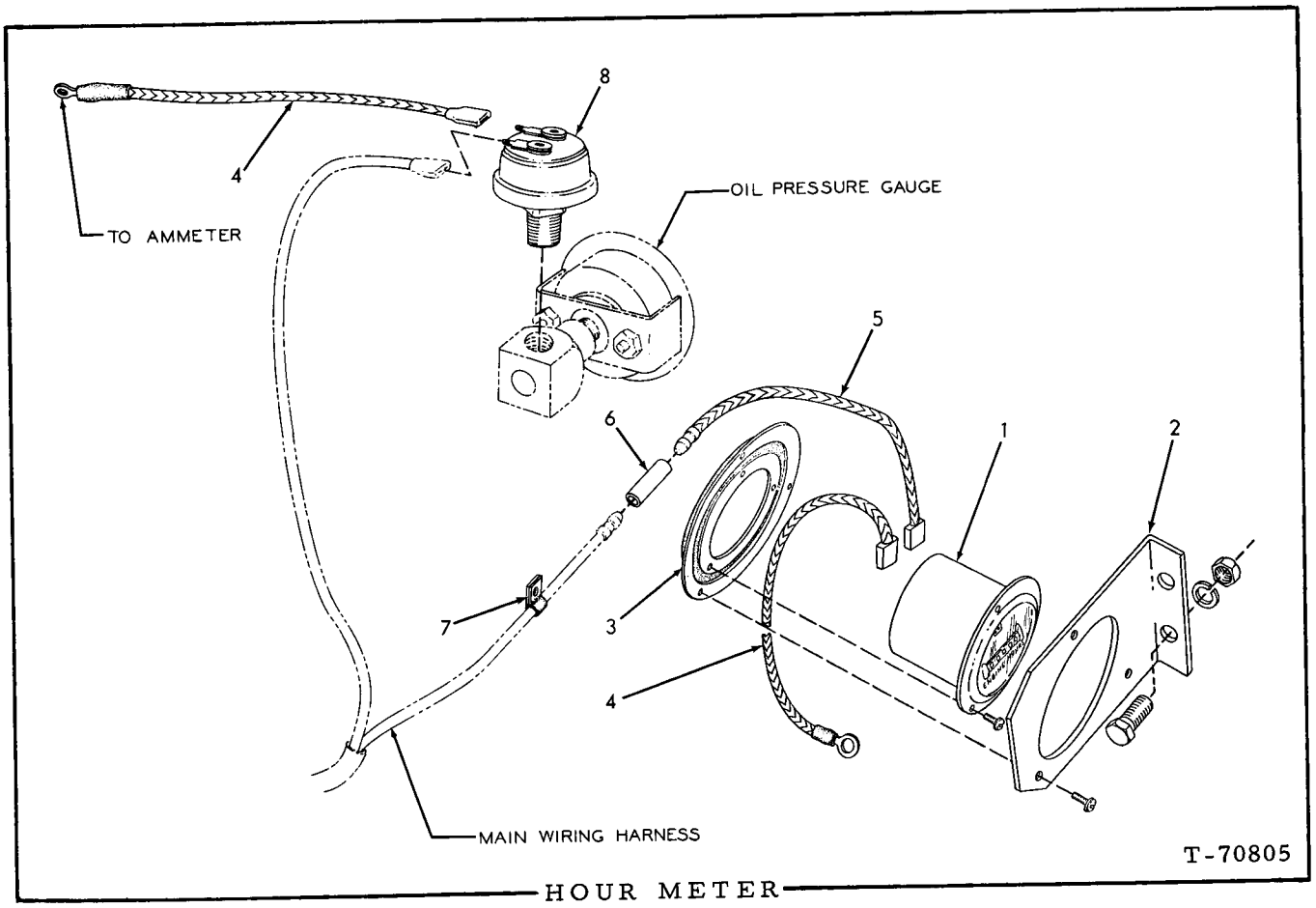
"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



BATTERY BOX LOCK

USAGE: Special Equipment. Model 21G loaders prior to serial No. 14577. Padlock is required to complete the installation.

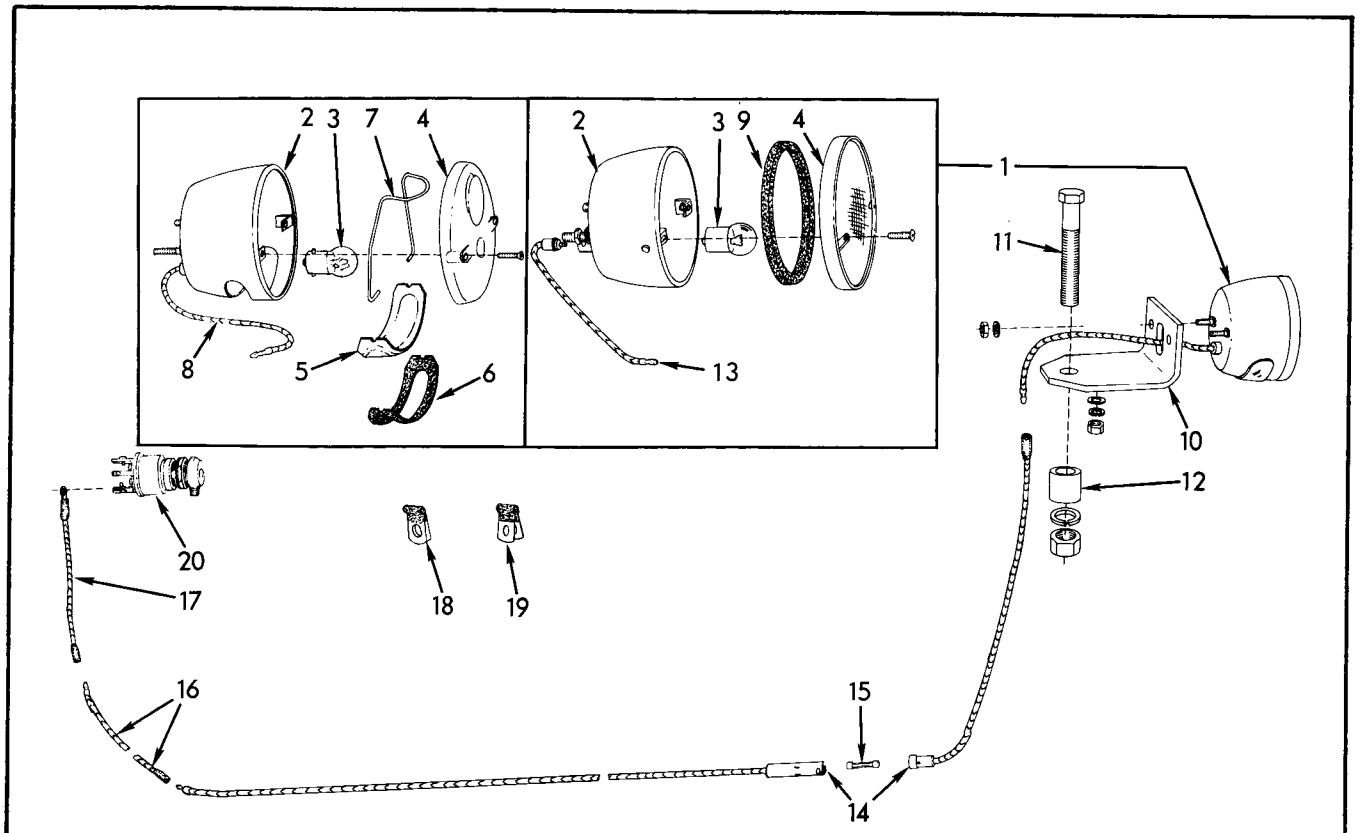
ITEM	PART NO.	QTY.	DESCRIPTION
1	620474	1	COVER, retaining knob
	914330	2	CAPSCREW, 1/4"NF x 5/8"
	904204	2	LOCKWASHER, 1/4"
	911040	2	NUT, 1/4"NF
2	620472	1	PLATE, latching, retaining knob cover
	914330	2	CAPSCREW, 1/4"NF x 5/8"
	904204	2	LOCKWASHER, 1/4"
	911040	2	NUT, 1/4"NF
3	035916	1	SPRING, latching rod
4	621201	1	ROD, latching
	916146	1	PIN, spring, 3/32" x 1/2"



HOUR METER

USAGE: Special (Model 21G); Standard (Model 21GS)

ITEM	PART NO.	QTY.	DESCRIPTION
1	650299	1	METER, hour (See NOTE below)
	918210	3	SCREW, #6 x 1/2" (Includes lockwasher)
			NOTE: Meter carries manufacturer's warranty and in case of failure should not be returned to Allis-Chalmers. Return "Hobbs" meter to nearest "Stewart-Warner" Agency. Return "Hamilton" meter to Hamilton Watch Company, Industrial Products Division, Lancaster, Pa.
2	069317	1	BRACKET, mounting
	910874	2	CAPSCREW, 1/4"NF x 1"
	904204	2	LOCKWASHER, 1/4"
	911040	2	NUT, 1/4"NF
3	066467	1	DAMPER, vibration
	918210	3	SCREW, #6 x 1/2" (Includes lockwasher)
4	630917	2	CABLE, meter and pressure switch (8" long)(Model 21G)
4	643623	2	CABLE, meter and pressure switch (8" long)(Model 21GS)
5	644599	1	CABLE, meter to main harness (5" long) } Not for Model 21GS
6	048142	1	CONNECTOR, cable
7	644758	1	CLIP, cable supporting (3/16" diam., 9/32" bolt-hole)
8	640727	1	SWITCH, pressure



TAIL LIGHT

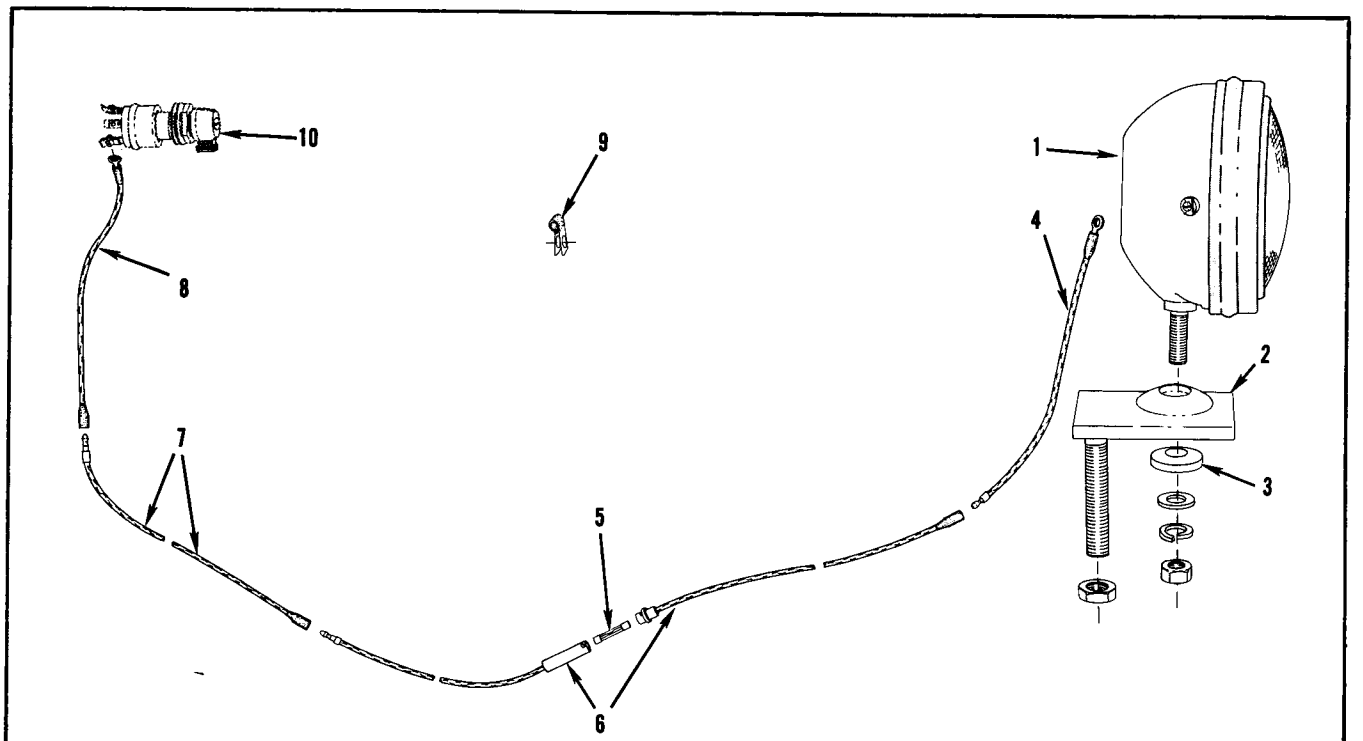
USAGE: Special equipment for Model 21G loaders

* Used prior to June 1967
** Effective June 1967

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	------	1	-	LIGHT ASSY., tail (Order LIGHT ASSEMBLY 654652)
	654652	-	1	LIGHT ASSY., tail (Consists of items 2 thru 8)
	904204	2	2	LOCKWASHER, 1/4"
	911024	2	2	NUT, 1/4"NC
2	------	1	1	BODY ASSY., (Not serviced separately)
3	074452	1	1	BULB, incandescent, single contact, 6 c.p., 24 volt
4	------	1	-	LENS, tail light (Discontinued)
	917883	2	-	SCREW, thread-cutting, rd-hd., #8 x 5/8"
	654991	-	1	LENS, tail light (red)
	654990	-	2	SCREW, retaining
5	654988	-	1	LENS-SEGMENT, tail light (clear)
6	654989	-	1	GASKET, lens-segment
7	654987	-	1	CLIP, lens-segment retaining

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
8	654986	-	1	WIRE ASSY., tail light (Includes insulating bushing)
9	629189	1	-	GASKET, tail light lens
10	067110	1	1	BRACKET, tail light mounting
11	066862	1	1	CAPSCREW, 5/8"NF x 4"
	904209	1	1	LOCKWASHER, 5/8"
	911044	1	1	NUT, 5/8"NF
12	067112	1	1	BLOCK, spacing, mounting bracket
13	------	1	-	CABLE ASSY., tail light (Discontinued)
14	655485	1	1	CABLE ASSY., rear section (107" long. Includes item 15)
15	208960	1	1	FUSE, cartridge type (1/4" x 1-1/4", 20 amperes)
16	655487	1	1	CABLE, intermediate section (60" long)
17	655433	1	1	CABLE, front section (6" long)
18	644883	1	1	CLIP, cable (3/16" diam., 17/32" bolt-hole)
19	073809	2	2	CLIP, cable (3/16" diam., 13/32" bolt-hole)
	035244	2	2	CAPSCREW, 3/8"NC x 3/4"
	904206	2	2	LOCKWASHER, 3/8"
	911115	2	2	WASHER, plain, SAE std., 3/8"
20	------	1	1	SWITCH, lights (See INSTRUMENTS)



REAR FLOOD LIGHT

USAGE: Special equipment for Model 21G loaders only

ITEM	PART NO.	QTY.	DESCRIPTION
1	638283	1	LIGHT ASSY. (See page 291 for parts)(Early units)
	621429	1	LIGHT ASSY. (See page 294 for parts)(Late units)
	900818	1	WASHER, plain, U.S. std., 1/2"
	904208	1	LOCKWASHER, 1/2"
	911043	1	NUT, 1/2"NF
2	094630	1	BRACKET, mounting
	911044	1	NUT, 5/8"NF
3	075535	1	WASHER, mounting
4	068367	1	CABLE, rear section (9" long)
5	208960	1	FUSE, cartridge type (1/4" x 1-1/4", 20 amperes)
6	655485	1	CABLE ASSY., rear intermediate section (107" long. Includes item 5)
7	655487	1	CABLE, front intermediate section (60" long)
8	655433	1	CABLE, front section (6" long)
9	644883	1	CLIP, cable (3/16" diam., 17/32" bolt-hole)
	073809	2	CLIP, cable (3/16" diam., 13/32" bolt-hole)
	035244	2	CAPSCREW, 3/8"NC x 3/4"
	904206	3	LOCKWASHER, 3/8"
	911115	2	WASHER, plain, SAE std., 3/8"
10	------	1	SWITCH, lights (See INSTRUMENTS)

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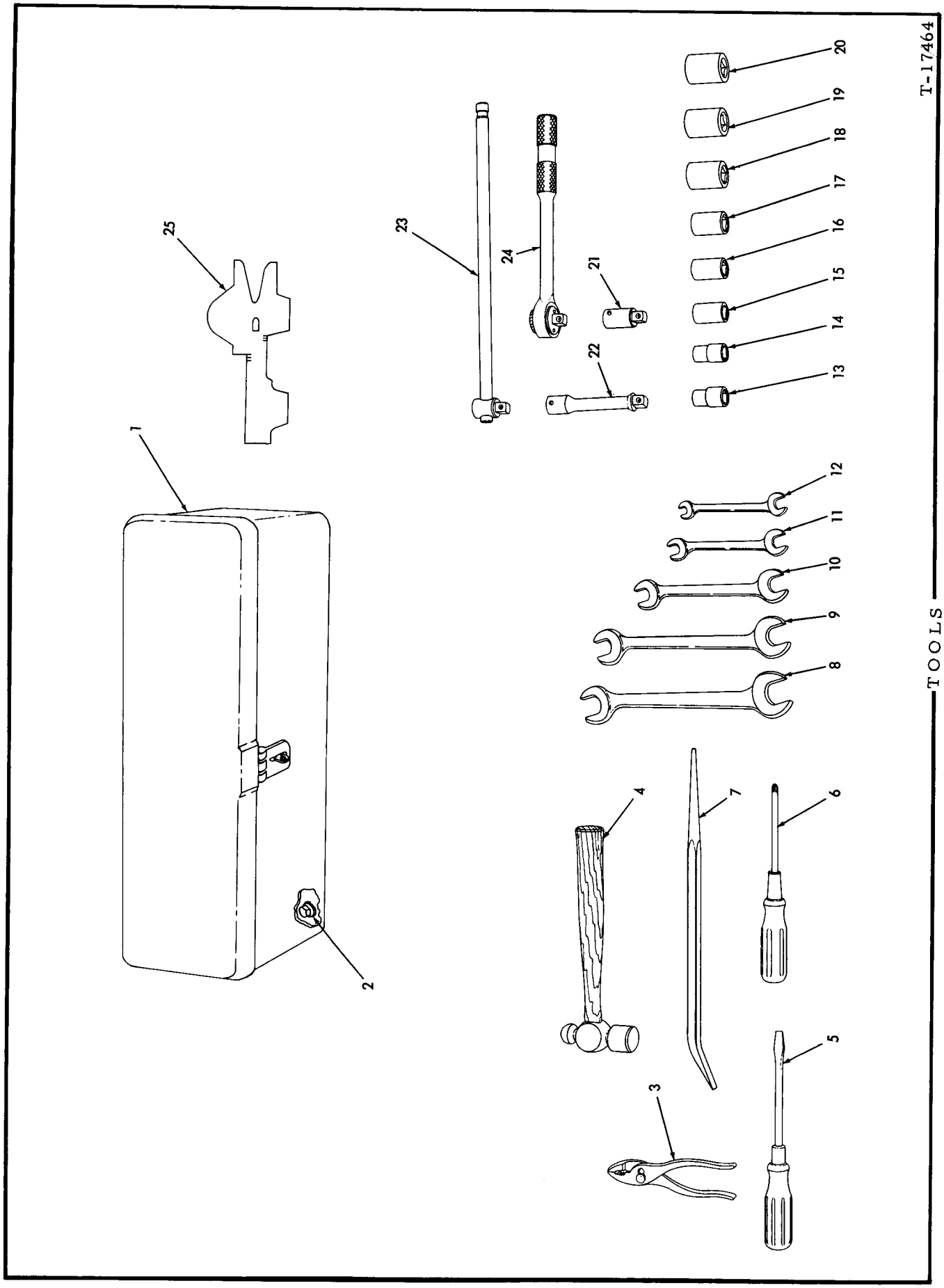
T-17464
TOOLS
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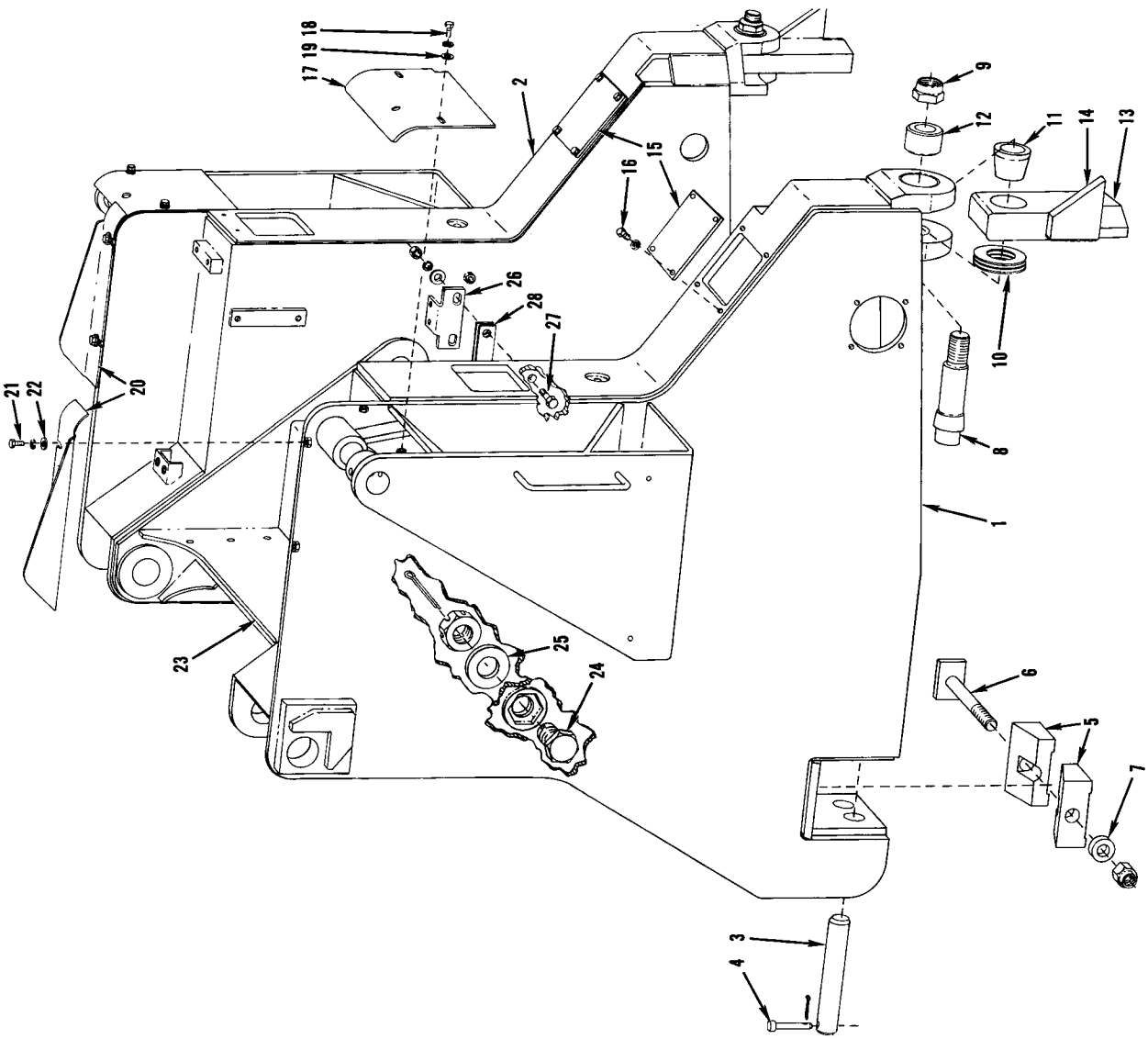
ITEM	PART NO.	QTY.	DESCRIPTION
			NOTE: For complete line of service tools for Allis-Chalmers Diesel Engines, consult Kent-Moore Organization, Inc., 1501 South Jackson Street, Jackson, Michigan
1	604943	1	BOX, tool (Mounts on right track fender)
2	012992	4	CAPSCREW, 3/8"NF x 1-1/4"
	904206	4	LOCKWASHER, 3/8"
	044973	4	WASHER, plain
3	012389	1	PLIERS, slip joint, 6"
4	012387	1	HAMMER, ball peen, 1 lb.
5	036268	1	SCREWDRIVER, 9-3/4" long
6	914732	1	SCREWDRIVER, Phillips #2
7	052371	1	BAR, pinch, 16" long
8	050611	1	WRENCH, open end, double head, 15°, 15/16" and 1-1/16"
9	050610	1	WRENCH, open end, double head, 15°, 3/4" and 7/8"
10	050609	1	WRENCH, open end, double head, 15°, 5/8" and 3/4"
11	050608	1	WRENCH, open end, double head, 15°, 1/2" and 9/16"
12	050607	1	WRENCH, open end, double head, 15°, 3/8" and 1/2"
13	914709	1	SOCKET, 1/2" square drive, 1/2" hex
14	914710	1	SOCKET, 1/2" square drive, 9/16" hex
15	914711	1	SOCKET, 1/2" square drive, 5/8" hex
16	914712	1	SOCKET, 1/2" square drive, 11/16" hex
17	914713	1	SOCKET, 1/2" square drive, 3/4" hex
18	914714	1	SOCKET, 1/2" square drive, 7/8" hex
19	914715	1	SOCKET, 1/2" square drive, 15/16" hex
20	914716	1	SOCKET, 1/2" square drive, 1" hex
21	914717	1	BAR, extension, socket, 1/2" drive, 2" long
22	914718	1	BAR, extension, socket, 1/2" drive, 5" long
23	050612	1	HANDLE, socket, sliding T, 1/2" square drive, 15" long
24	914719	1	HANDLE, socket, ratchet, 1/2" square drive
25	631354	1	GAUGE, wear (Indicates maximum wear tolerances for track rails, grouser shoes, sprockets, idlers and truck wheels)

T-75063

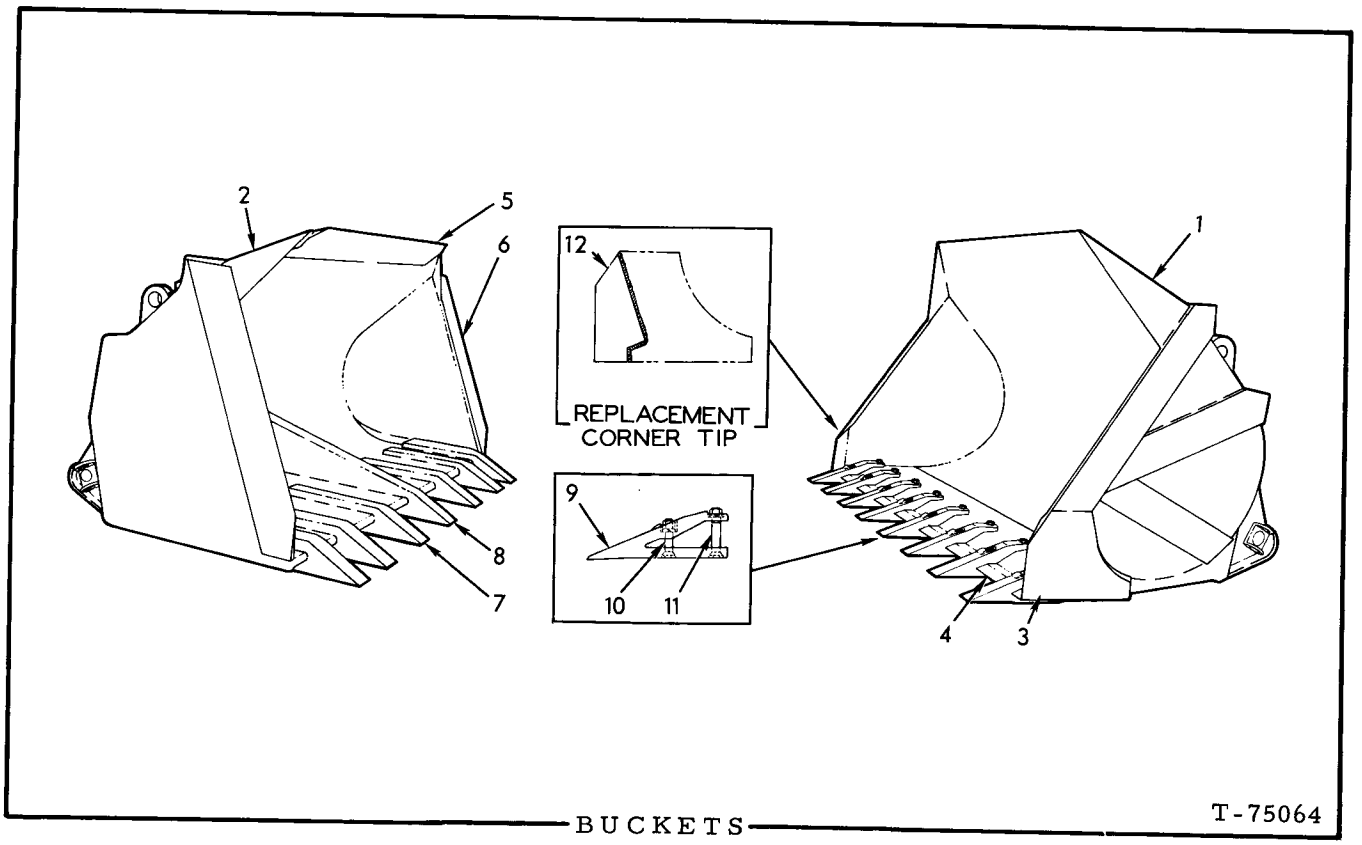
SHOVEL FRAME



SHOVEL FRAME

ITEM	PART NO.	QTY.	DESCRIPTION
1	626899	1	*FRAME, left (Model 21G loaders prior to #14577)
	648951	1	*FRAME, left (All model 21GS loaders; also 21G loaders #14577 and up)
2	626900	1	*FRAME, right (Model 21G loaders prior to #14577)
	648952	1	*FRAME, right (All Model 21GS loaders; also 21G loaders #14577 and up)
3	626583	4	PIN, frame anchor, front
4	626584	4	PIN, retaining, frame anchor pin
	900810	4	PIN, cotter, 3/16" x 1-1/4"
5	626585	4	WEDGE, frame anchor pin
6	626544	2	STUD
7	635336	2	SPACER
	917776	2	NUT, elastic stop, 1-1/4"NF
8	626589	2	PIN, frame anchor, rear
9	3017556	2	NUT, elastic stop
10	626590	12	SHIM, rear frame anchor (Use as required)
11	626587	2	BUSHING, rear anchor pin (tapered)
12	626588	2	BUSHING, rear anchor pin (straight)
13	626581	1	*LUG, frame mounting, left
	626582	1	*LUG, frame mounting, right
14	626591	2	*GUSSET, frame lug
15	626586	2	PLATE, frame cover
16	070469	8	CAPSCREW, 1/2"NF x 1-1/4"
	904208	8	LOCKWASHER, 1/2"
17	627877	1	PLATE, protecting, left
	627878	1	PLATE, protecting, right
18	036034	4	CAPSCREW, 3/8"NF x 1" (Early units)
	035439	4	CAPSCREW, 3/8"NC x 1" (Late units)
	904206	4	LOCKWASHER, 3/8"
19	044973	4	WASHER, plain
20	627881	1	ANGLE, protecting plate, left
	627882	1	ANGLE, protecting plate, right
21	036034	4	CAPSCREW, 3/8"NF x 1" (Early units)
	035439	4	CAPSCREW, 3/8"NC x 1" (Late units)
	904206	4	LOCKWASHER, 3/8"
22	044973	4	WASHER, plain
23	649124	1	*STABILIZER, frame
24	626542	4	PIN
25	626543	4	WASHER, plain
	918530	4	NUT, slotted, 2"NF
	904015	4	PIN, cotter, 3/8" x 3-1/2"
26	626505	2	BRACKET, hose supporting
27	035892	4	CAPSCREW, 1/2"NF x 2-1/2"
	910244	4	WASHER, plain, SAE std., 1/2"
	904208	4	LOCKWASHER, 1/2"
	911043	4	NUT, 1/2"NF
28	626502	2	SHIM, hose bracket

*Require welding to install

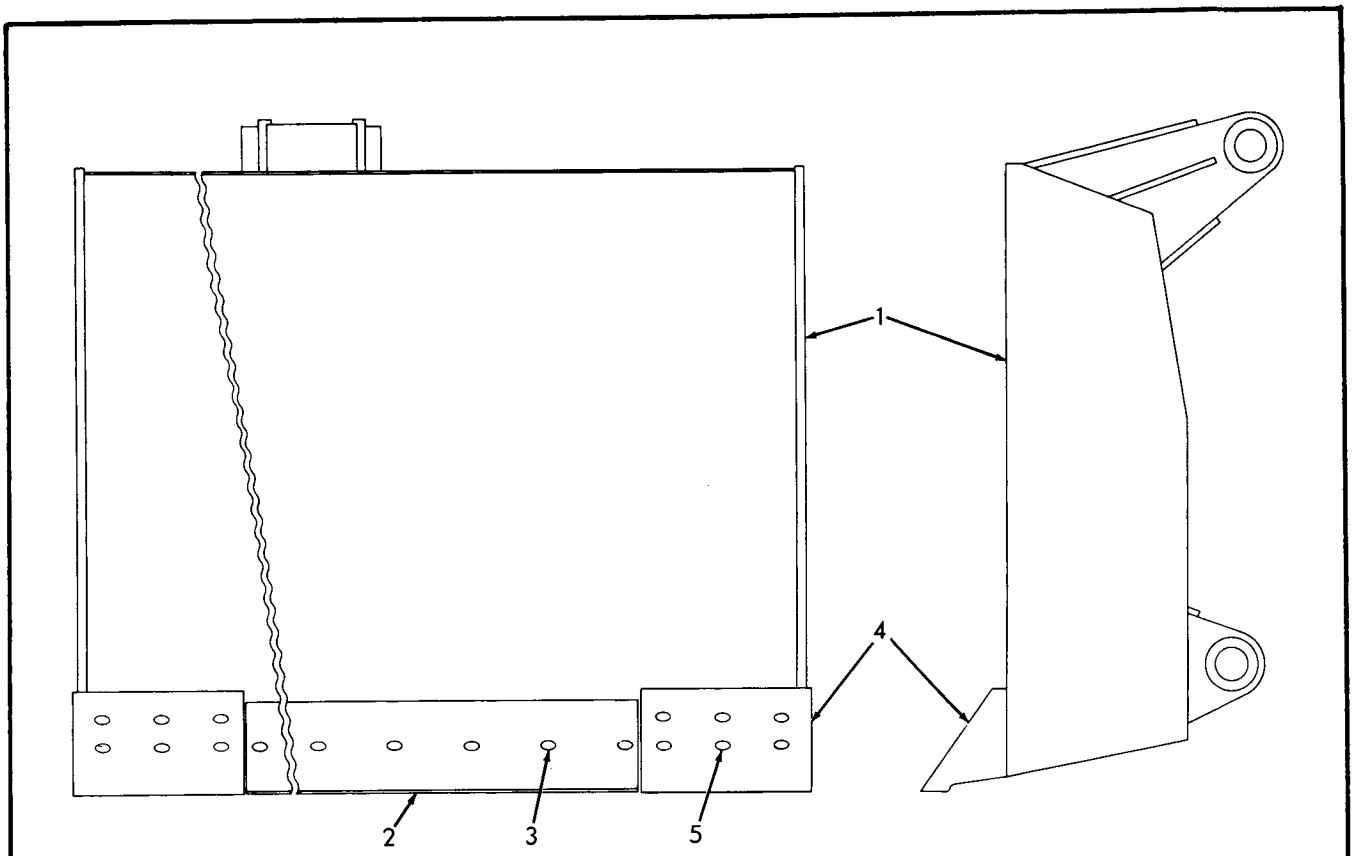


BUCKETS

T-75064

ITEM	PART NO.	QTY.	DESCRIPTION
1	623542	1	BUCKET ASSEMBLY, general purpose (Includes items 3, 4 and 9)
2	622948	1	BUCKET ASSEMBLY, slag (Includes items 5 thru 8)
3	635463	1	*BIT, left end — For general purpose bucket only
	635464	1	*BIT, right end — For general purpose bucket only
4	626789	1	*EDGE, cutting (1" thick, 105-1/4" long) — For general purpose bucket only
5	627112	1	*EDGE, cutting, top — For slag bucket only
6	627107	1	*EDGE, cutting, left side — For slag bucket only
	627108	1	*EDGE, cutting, right side — For slag bucket only
7	627111	6	*TOOTH, side positions — For slag bucket only
8	627115	1	*TOOTH, center position — For slag bucket only
9	627121	8	TOOTH ASSEMBLY (Includes hardware indented below)(For general purpose bucket)
10	636512	8	CAPSCREW, 1"NC x 3-3/4"
11	636513	8	CAPSCREW, 1"NC x 5-1/2"
	910916	16	LOCKWASHER, 1"
	911032	16	NUT, 1"NC
12	635463	1	*TIP, bucket corner, left — Not original equipment. For general purpose bucket only
	635464	1	*TIP, bucket corner, right — Not original equipment. For general purpose bucket only

*Require welding to install



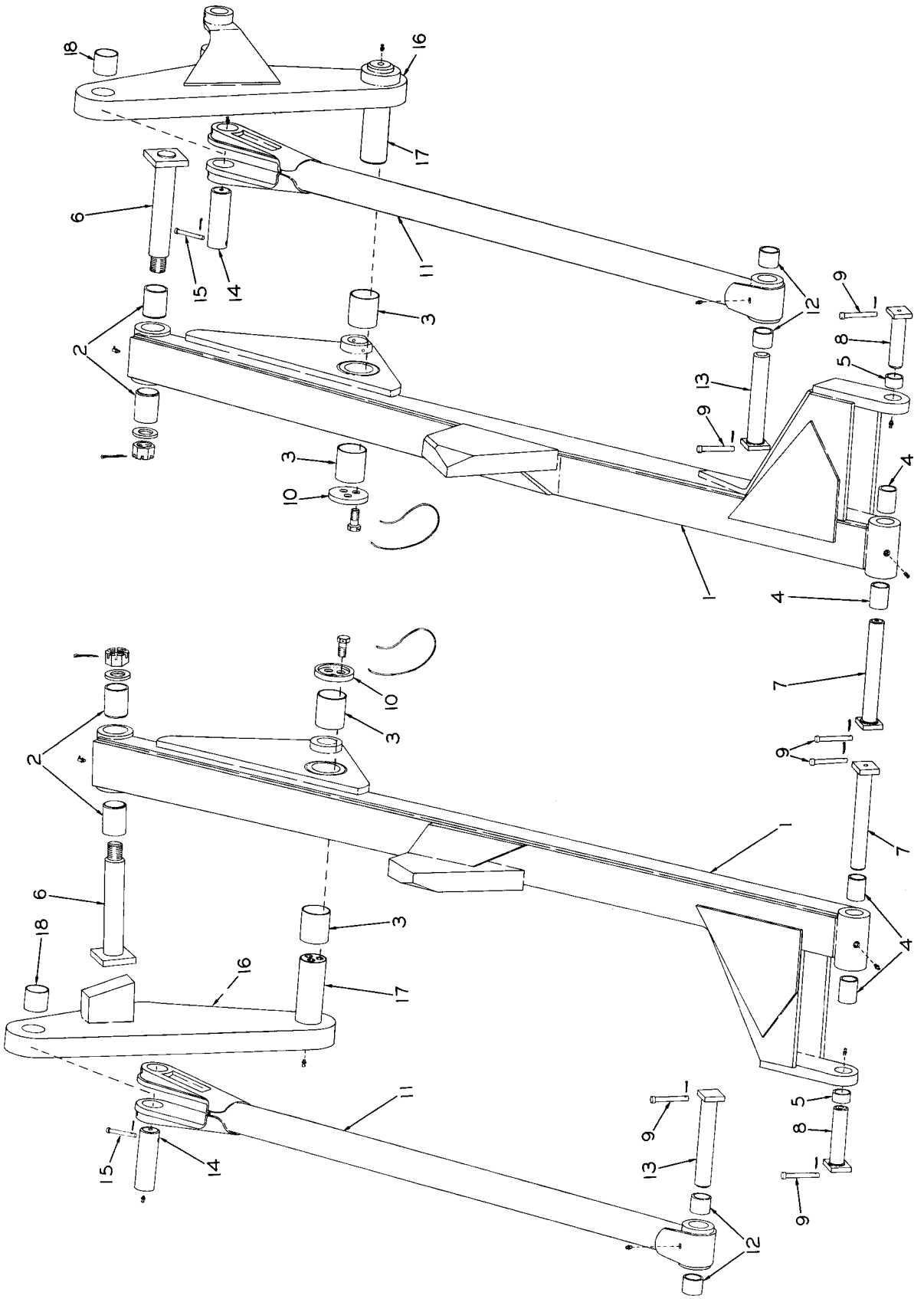
DOZING MOLDBOARD

USAGE: Special equipment. Replaces standard bucket. Model 21G only. Production discontinued.

ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	MOLDBOARD ASSEMBLY (Includes items 2 thru 5) (Not available)
2	627196	1	EDGE, cutting
3	627907	20	BOLT, plow, 3/4"NC x 3-1/2"
	904369	20	LOCKWASHER, 3/4"
	911030	20	NUT, 3/4"NC
4	627197	1	BIT, end, left side
	627198	1	BIT, end, right side
5	627907	12	BOLT, plow, 3/4"NC x 3-1/2"
	904369	12	LOCKWASHER, 3/4"
	911030	12	NUT, 3/4"NC

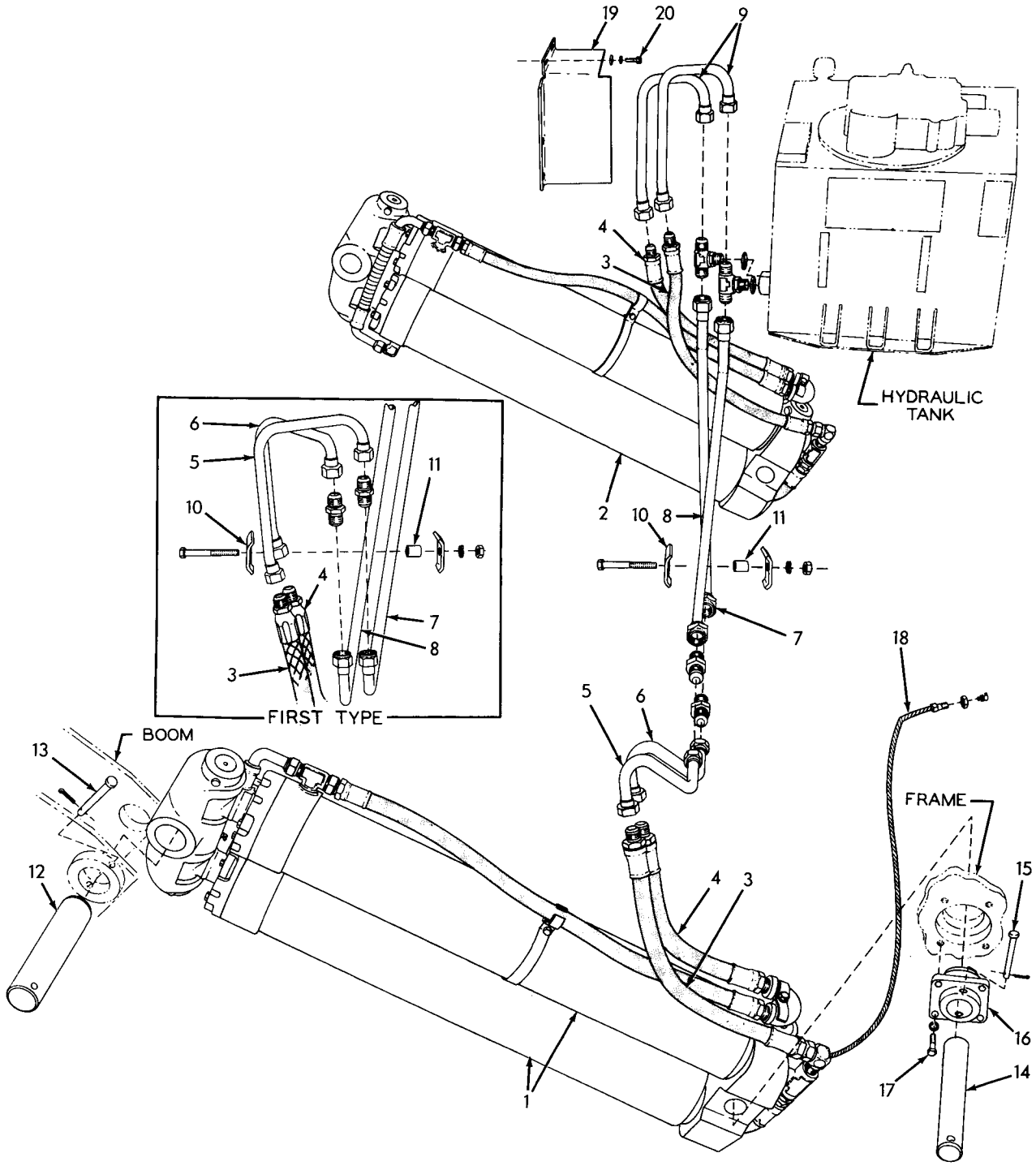
T-75066

SHOVEL LINKAGE



SHOVEL LINKAGE

ITEM	PART NO.	QTY.	DESCRIPTION	
1	648871	1	BOOM ASSY., left	Includes items 2 thru 5
	915276	1	FITTING, lubricating, 90°, 1/8"NPT	
	914465	1	FITTING, lubricating, straight, 1/8"NPT	
	648872	1	BOOM ASSY., right	
	915276	1	FITTING, lubricating, 90°, 1/8"NPT	
	914465	1	FITTING, lubricating, straight, 1/8"NPT	
2	626805	4	BUSHING, boom rear end	
3	626802	4	BUSHING, boom center	
4	3004981	4	BUSHING, boom front end, inner	
5	3001119	2	BUSHING, boom front end, outer	
6	626830	2	PIN, boom pivot	
	918530	2	NUT, slotted, 2"NF	
	904016	2	PIN, cotter, 3/8" x 4"	
	626543	2	WASHER, plain	
7	626845	2	PIN, bucket pivot, long	
8	626821	2	PIN, bucket pivot, short	
	914465	2	FITTING, lubricating, straight, 1/8"NPT	
9	3013568	6	PIN, retaining, bucket pivot pins	
	900810	6	PIN, cotter, 3/16" x 1-1/4"	
10	626829	2	WASHER, cross link pivot pin	
	626828	6	CAPSCREW, drilled-hd., 1"NF x 2-1/4"	
	023756	2	WIRE, locking, 1/16" x 26"	
11	626822	2	LINK ASSY., dump (Includes item 12)	
	914465	2	FITTING, lubricating, straight, 1/8"NPT	
12	626824	4	BUSHING, dump link	
13	626820	2	PIN, dump link, front	
14	626844	2	PIN, dump link, rear	
	914465	2	FITTING, lubricating, straight, 1/8"NPT	
15	626866	2	PIN, retaining, dump link rear pin	
	900810	2	PIN, cotter, 3/16" x 1-1/4"	
16	626833	1	LINK ASSY., cross, left side	Includes items 17 and 18
	914465	1	FITTING, lubricating, straight, 1/8"NPT	
	626834	1	LINK ASSY., cross, right side	
	914465	1	FITTING, lubricating, straight, 1/8"NPT	
17	626840	2	PIN, cross link pivot (Requires welding to install)	
18	626637	2	BUSHING, cross link	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HYDRAULIC TANK
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3
7
FIRST TYPE
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BOOM
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FRAME
12
15
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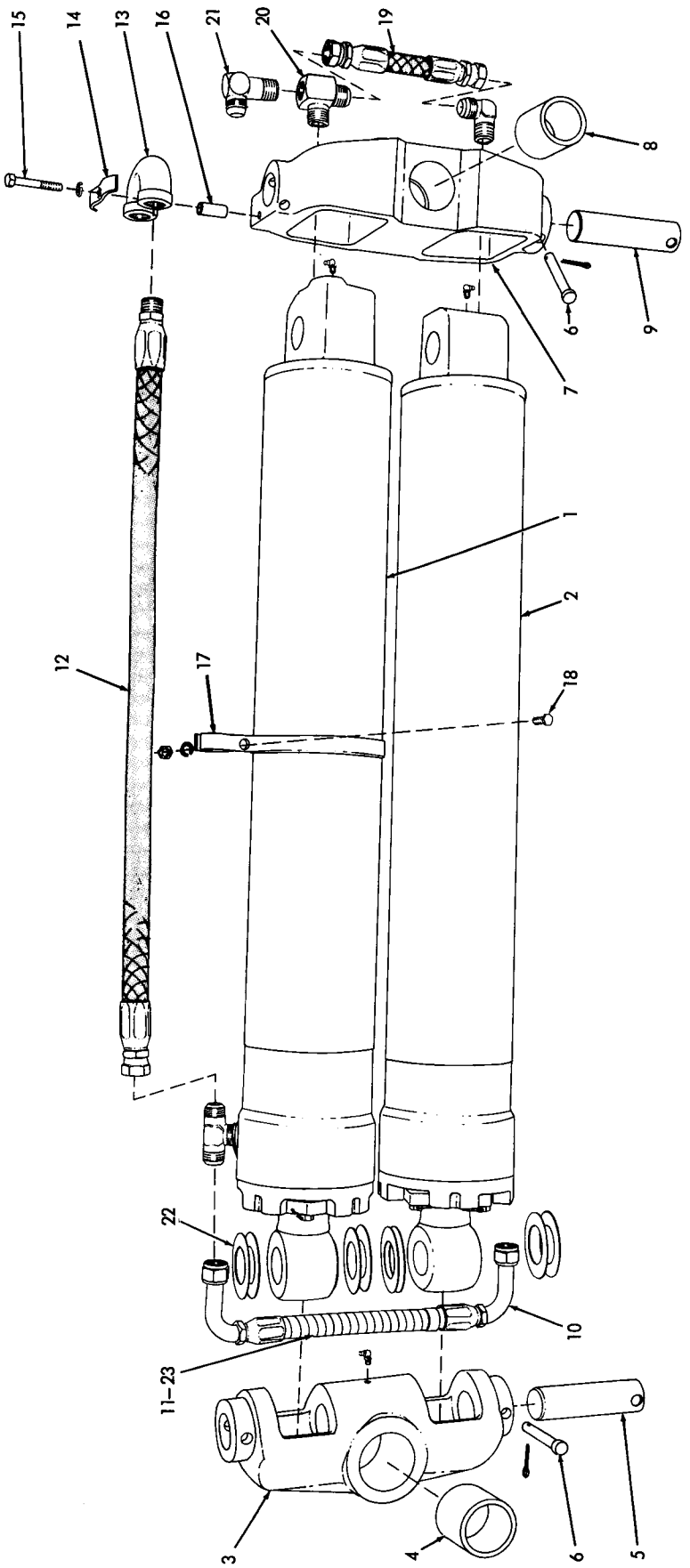
14
1

T-70804

LIFT CYLINDERS AND LINES

* Model 21G loaders prior to serial No. 14577
** All Model 21GS loaders; also Model 21G loaders serial No. 14577 and up

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	------	1	1	CYLINDER ASSY., left } See page 336 for details
2	------	1	1	CYLINDER ASSY., right } See page 336 for details
3	646227	2	2	HOSE, raise line (Units using petroleum fluid)(See HOSE PARTS)
	663434	-	2	HOSE, raise line (Units using phosphate-ester fluid)
4	646228	2	2	HOSE, drop line (Units using petroleum fluid)(See HOSE PARTS)
	663435	-	2	HOSE, drop line (Units using phosphate-ester fluid)
5	635796	1	-	TUBE ASSY., left cylinder raise line, outer (Includes nuts)
	648251	-	1	TUBE ASSY., left cylinder raise line, outer (Includes nuts)
	922316	1	1	UNION, flare type, 1-1/4" tube
6	635795	1	-	TUBE ASSY., left cylinder drop line, outer (Includes nuts)
	648250	-	1	TUBE ASSY , left cylinder drop line, outer (Includes nuts)
	922316	1	1	UNION, flare type, 1-1/4" tube
7	635804	1	-	TUBE ASSY., left cylinder raise line, inner (Includes nuts)
	648249	-	1	TUBE ASSY., left cylinder raise line, inner (Includes nuts)
8	635803	1	-	TUBE ASSY., right cylinder drop line (Includes nuts)
	648248	-	1	TUBE ASSY., right cylinder drop line (Includes nuts)
9	635798	2	2	TUBE ASSY., right cylinder (Includes nuts)
	922553	2	2	TEE, adjustable, flare type, 1-1/4" tube, 1-5/8" straight thread (Includes washer, nut and O-RING 921235)(Units using petroleum fluid)
	924082	2	2	TEE, adjustable, flare type, 1-1/4" tube, 1 1-5/8" straight male thread (Includes washer and nut) } Units using phosphate-ester fluid
	923829	2	2	O-RING, tee sealing } Units using phosphate-ester fluid
10	635129	2	2	CLAMP, tube supporting
	920604	1	1	CAPSCREW, 1/2"NF x 5-1/4"
	904208	1	1	LOCKWASHER, 1/2"
	911043	1	1	NUT, 1/2"NF
11	635131	1	1	SPACER, tube supporting clamp
12	626867	2	2	PIN, front
13	626866	2	2	PIN, retaining, front pin
	900810	2	2	PIN, cotter, 3/16" x 1-1/4"
14	626848	2	2	PIN, rear
15	3011625	2	2	PIN, retaining, rear pin
	900810	2	2	PIN, cotter, 3/16" x 1-1/4"
16	626874	2	2	RETAINER, rear pin
17	023465	8	8	CAPSCREW, 5/8"NF x 1-3/4"
	904209	8	8	LOCKWASHER, 5/8"
18	626618	2	2	TUBE, flexible, rear pin lubricating
	911049	2	2	NUT, jam, 5/8"NF
	915276	2	2	FITTING, lubricating, 90°, 1/8"NPT
	915399	2	2	ELBOW, street, brass, 90°, 1/8"NPT
19	648542	-	1	SHIELD, dirt
20	036034	-	4	CAPSCREW, 3/8"NF x 1"
	904206	-	4	LOCKWASHER, 3/8"
	044973	-	4	WASHER, plain



T-40570

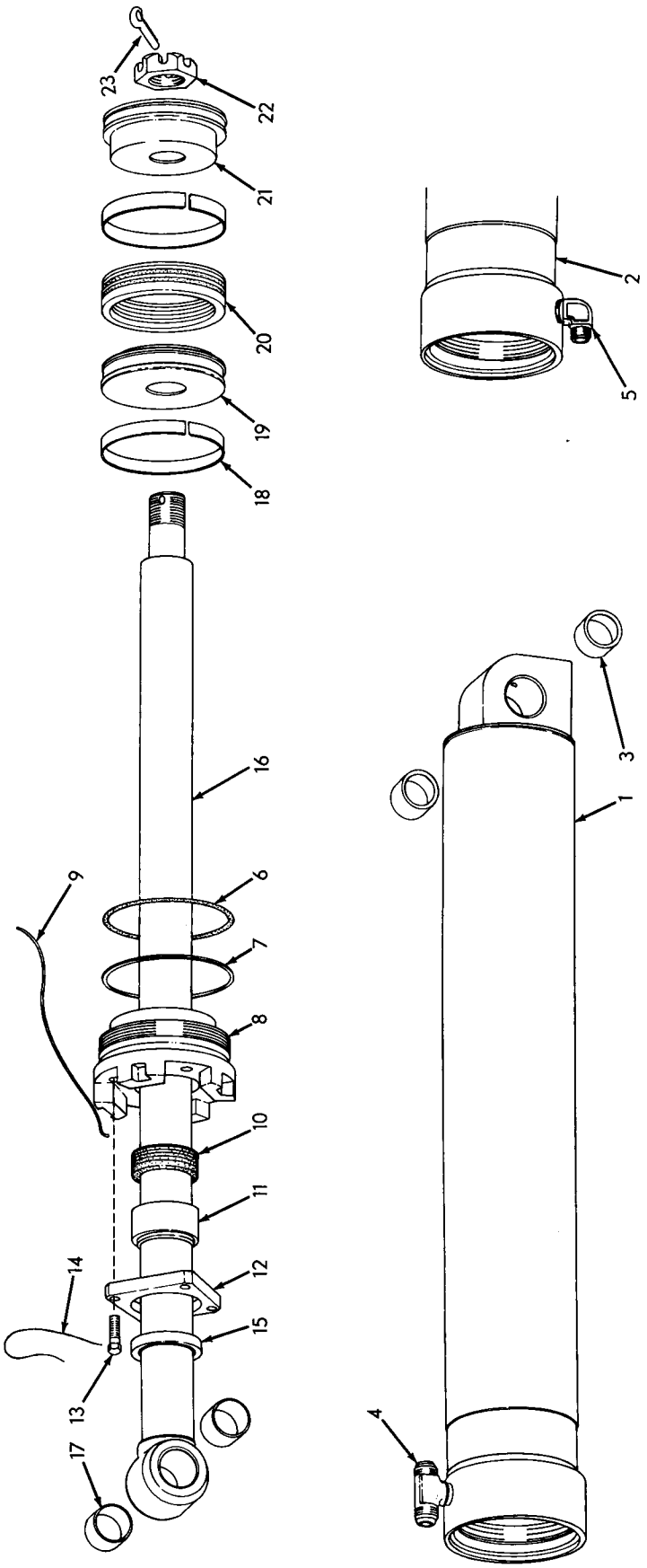
LIFT CYLINDERS

LIFT CYLINDERS

* Left side
** Right side
See page 334

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	626647	1	-	CYLINDER ASSY., upper (For petroleum fluid)
	648865	1	-	CYLINDER ASSY., upper (For phosphate-ester fluid)
	915276	1	-	FITTING, lubricating, 90°, 1/8"NPT
	626648	-	1	CYLINDER ASSY., upper (For petroleum fluid)
	648866	-	1	CYLINDER ASSY., upper (For phosphate-ester fluid)
	915276	-	1	FITTING, lubricating, 90°, 1/8"NPT
2	626653	1	-	CYLINDER ASSY., lower (For petroleum fluid)
	648867	1	-	CYLINDER ASSY., lower (For phosphate-ester fluid)
	915276	1	-	FITTING, lubricating, 90°, 1/8"NPT
	626654	-	1	CYLINDER ASSY., lower (For petroleum fluid)
	648868	-	1	CYLINDER ASSY., lower (For phosphate-ester fluid)
	915276	-	1	FITTING, lubricating, 90°, 1/8"NPT
3	626636	1	1	YOKE ASSY., front (Includes item 4)
	915276	1	1	FITTING, lubricating, 90°, 1/8"NPT
4	626637	2	2	BUSHING, front yoke
5	626624	2	2	PIN, front yoke
6	626625	4	4	PIN, retaining, yoke pin
	900810	4	4	PIN, cotter, 3/16" x 1-1/4"
7	626860	1	1	YOKE ASSY., rear (Includes item 8)
8	3004981	2	2	BUSHING, rear yoke
9	626621	2	2	PIN, rear yoke
10	626628	1	1	HOSE ASSY., cylinder connecting, front (See HOSE PARTS. Also includes item 11)(For petroleum fluid)
	663438	1	1	HOSE, cylinder connecting, front (For phosphate-ester fluid)
11	------	1	1	GUARD, hose protecting (11-3/4" long. Order item 23)
12	646220	1	1	HOSE, tee to return bend, drop line (See HOSE PARTS)(For petroleum fluid)
	663436	1	1	HOSE, tee to return bend, drop line (For phosphate-ester fluid)
13	626622	1	1	BEND, return
14	626623	1	1	CLAMP, return bend
15	070403	1	1	CAPSCREW, 1/2"NF x 3"
	904208	1	1	LOCKWASHER, 1/2"
16	626635	1	1	SPACER, return bend clamp
17	626631	1	1	CLAMP, hose supporting
18	035018	1	1	CAPSCREW, 1/2"NF x 1-1/2"
	904208	1	1	LOCKWASHER, 1/2"
	911043	1	1	NUT, 1/2"NF
19	646224	1	1	HOSE, cylinder connecting, rear (See HOSE PARTS)(For petroleum fluid)
	663437	1	1	HOSE, cylinder connecting, rear (For phosphate-ester fluid)
	920686	1	1	ELBOW, flare type, 90°, 1" tube, 1"NPT male
20	626634	1	1	TEE, cylinder connecting hose
21	626633	1	1	ELBOW, cylinder connecting hose
22	637366	8	8	SHIM, cylinder rod (Use as required)
23	3016477	-	-	GUARD, hose, 1-7/32"O.D., 14 ft. roll (Use as required)

See page 338 for parts



LIFT CYLINDER PARTS

T-39366

LIFT CYLINDER PARTS

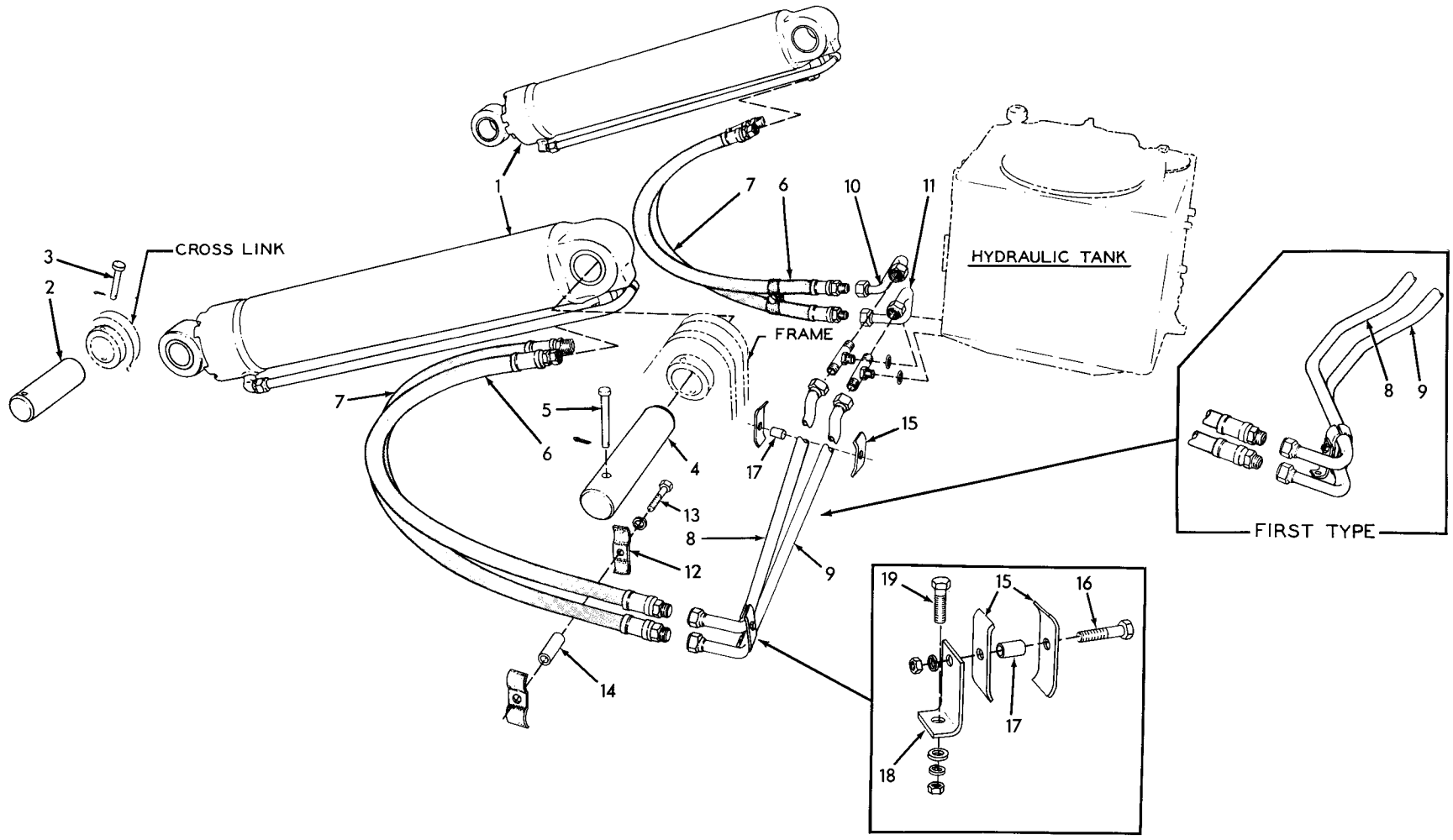
* 626647 CYLINDER ASSEMBLY
* 626648 CYLINDER ASSEMBLY
* 626653 CYLINDER ASSEMBLY
* 626654 CYLINDER ASSEMBLY
} Petroleum fluid

** 648865 CYLINDER ASSEMBLY
** 648866 CYLINDER ASSEMBLY
** 648867 CYLINDER ASSEMBLY
** 648868 CYLINDER ASSEMBLY
} Phosphate-ester fluid

} See page 336

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
				NOTE: Quantities listed are for one (1) cylinder only
1	636525	1	1	CYLINDER ASSEMBLY, upper left } Each includes items 3 and 4
	636526	1	1	CYLINDER ASSEMBLY, upper right
2	636531	1	1	CYLINDER ASSEMBLY, lower left } Each includes items 3 and 5
	636532	1	1	CYLINDER ASSEMBLY, lower right
3	3001066	2	2	BUSHING, cylinder pivot
4	626642	1	1	TEE, hose connection } Require welding to install
5	626561	1	1	ELBOW, hose connection
6	924780	1	-	□O-RING, cylinder head
	923635	-	1	O-RING, cylinder head
7	3012554	1	1	□RING, back-up, cylinder head o-ring
8	3012756	1	1	HEAD, cylinder
10	3047563	1	-	□PACKING SET, piston rod
	3027559	-	1	PACKING SET, piston rod
11	626553	1	1	□BUSHING, piston rod packing
12	3012753	1	1	PLATE, packing adjustment
13	035814	4	4	□CAPSCREW, drilled-hd., 1/2"NC x 1-3/4"
14	023756	1	1	WIRE, locking, 1/16" x 26"
15	227072	1	-	□SEAL, wiping, piston rod
	3027392	-	1	SEAL, wiping, piston rod
16	660447	1	1	ROD ASSEMBLY, piston (Includes item 17)
17	3001066	2	2	BUSHING, piston rod
18	3008159	2	2	□RING, piston bearing
19	3008158	1	1	PISTON, front
20	3008160	1	-	□PACKING SET, piston
	3027563	-	1	PACKING SET, piston
21	3008165	1	1	PISTON, rear
22	922271	1	1	NUT, piston rod
23	911699	1	1	□PIN, cotter, 3/8" x 3-1/4"
24	3013194	1	-	REPAIR KIT, (Includes parts for one (1) cylinder only; items 6, 7, 10, 11, 13, 15, 18, 20 and 23)(Not illustrated)

□Components of item 24



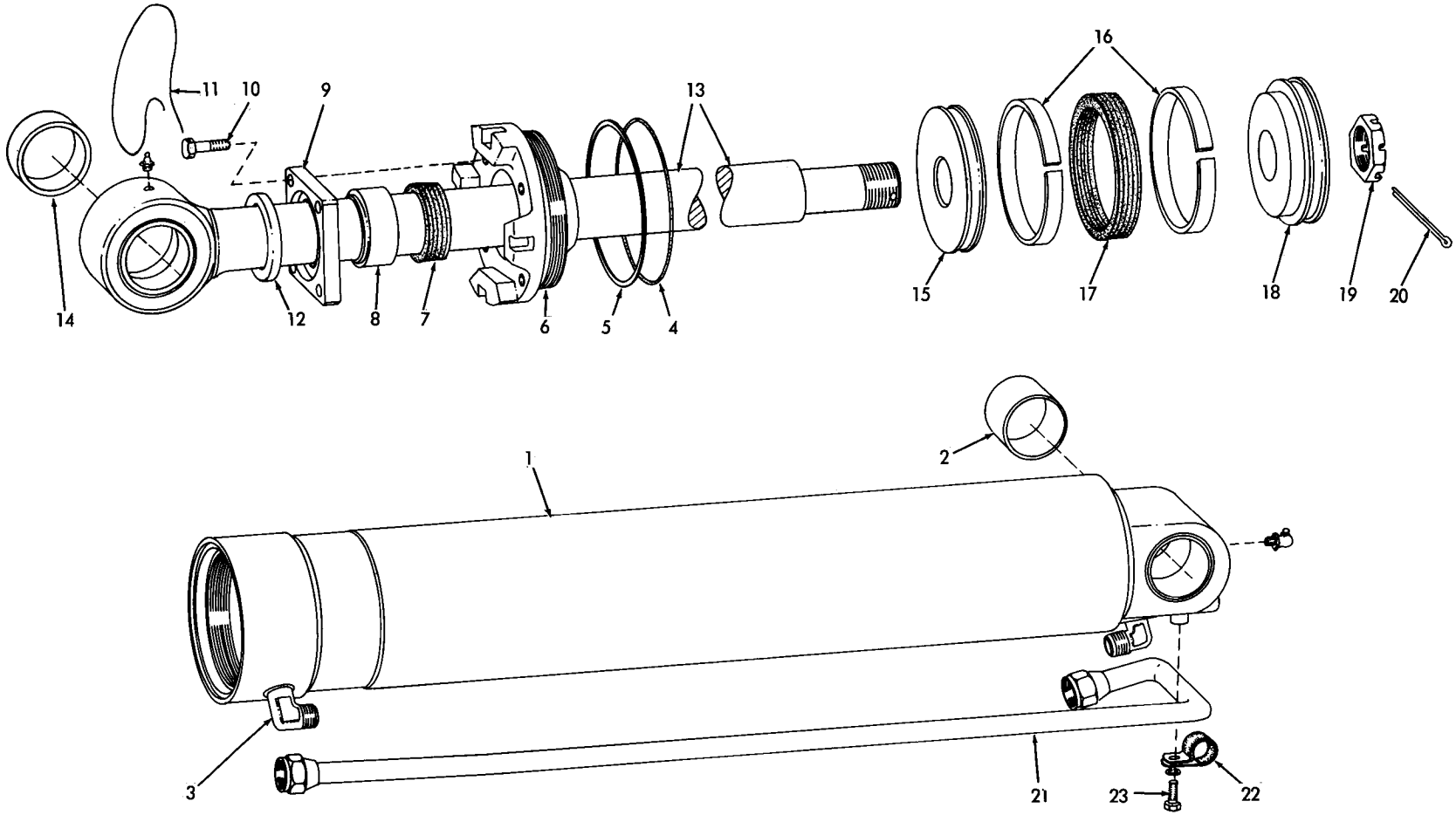
DUMP CYLINDERS AND LINES

T-70803

DUMP CYLINDERS AND LINES

* Model 21G loaders prior to serial No. 14577
** All Model 21GS loaders; also Model 21G loaders serial No. 14577 and up

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	626552	2	2	CYLINDER ASSY. (Units using petroleum fluid) } See page 342 for parts
	648756	-	2	CYLINDER ASSY. (Units using phosphate-ester fluid) } See page 342 for parts
2	626843	2	2	PIN, front pivot
3	3013568	2	2	PIN, retaining, front pivot pin
	900810	2	2	PIN, cotter, 3/16" x 1-1/4"
4	626846	2	2	PIN, rear pivot
5	626847	2	2	PIN, retaining, rear pivot pin
	900810	2	2	PIN, cotter, 3/16" x 1-1/4"
6	646226	2	2	HOSE, cylinder dump line(Units using petroleum fluid) (See HOSE PARTS)
	663433	-	2	HOSE, cylinder dump line(Units using phosphate-ester fluid)
7	646225	2	2	HOSE, cylinder retract line (Units using petroleum fluid) (See HOSE PARTS)
	663432	-	2	HOSE, cylinder retract line (Units using phosphate-ester fluid)
8	635805	1	-	TUBE ASSY., left cylinder dump line (Includes nuts)
	648246	-	1	TUBE ASSY., left cylinder dump line (Includes nuts)
	922553	1	1	TEE, adjustable, flare type, 1-1/4" tube, 1-5/8" straight thread (Includes washer, nut and O-RING 921235)(Units using petroleum fluid)
	924082	-	1	TEE, adjustable, flare type, 1-1/4" tube, 1-5/8" straight thread (Includes washer and nut) } Units using phosphate-ester fluids
	923879	-	1	O-RING, tee sealing } Units using phosphate-ester fluids
9	635806	1	-	TUBE ASSY., left cylinder retract line (Includes nuts)
	648247	-	1	TUBE ASSY., left cylinder retract line (Includes nuts)
	922553	1	1	TEE, adjustable, flare type, 1-1/4" tube, 1-5/8" straight thread (Includes washer, nut and O-RING 921235)(Units using petroleum fluid)
	924082	-	1	TEE, adjustable, flare type, 1-1/4" tube, 1-5/8" straight thread (Includes washer and nut) } Units using phosphate-ester fluid
	923879	-	1	O-RING, tee sealing } Units using phosphate-ester fluid
10	635799	1	1	TUBE ASSY., right cylinder dump line (Includes nuts)
11	635802	1	1	TUBE ASSY., right cylinder retract line (Includes nuts)
12	625221	4	4	CLAMP, hose supporting
13	035068	2	-	CAPSCREW, 1/2"NF x 2-1/4"
	903640	-	2	CAPSCREW, 1/2"NC x 2"
	904208	2	2	LOCKWASHER, 1/2"
14	635132	2	2	SPACER, hose clamp (7/8" long)
15	635129	4	4	CLAMP, tube supporting
16	035278	1	1	CAPSCREW, 1/2"NF x 2-3/4"
	904208	1	1	LOCKWASHER, 1/2"
	911043	1	1	NUT, 1/2"NF
17	635131	2	2	SPACER, tube supporting clamp (1-3/16" long)
18	642672	1	1	ANGLE, tube supporting
19	035073	1	1	CAPSCREW, 1/2"NF x 1-3/4"
	064531	1	1	WASHER, plain
	904208	1	1	LOCKWASHER, 1/2"
	911043	1	1	NUT, 1/2"NF



T-39368

DUMP CYLINDER PARTS

DUMP CYLINDER PARTS

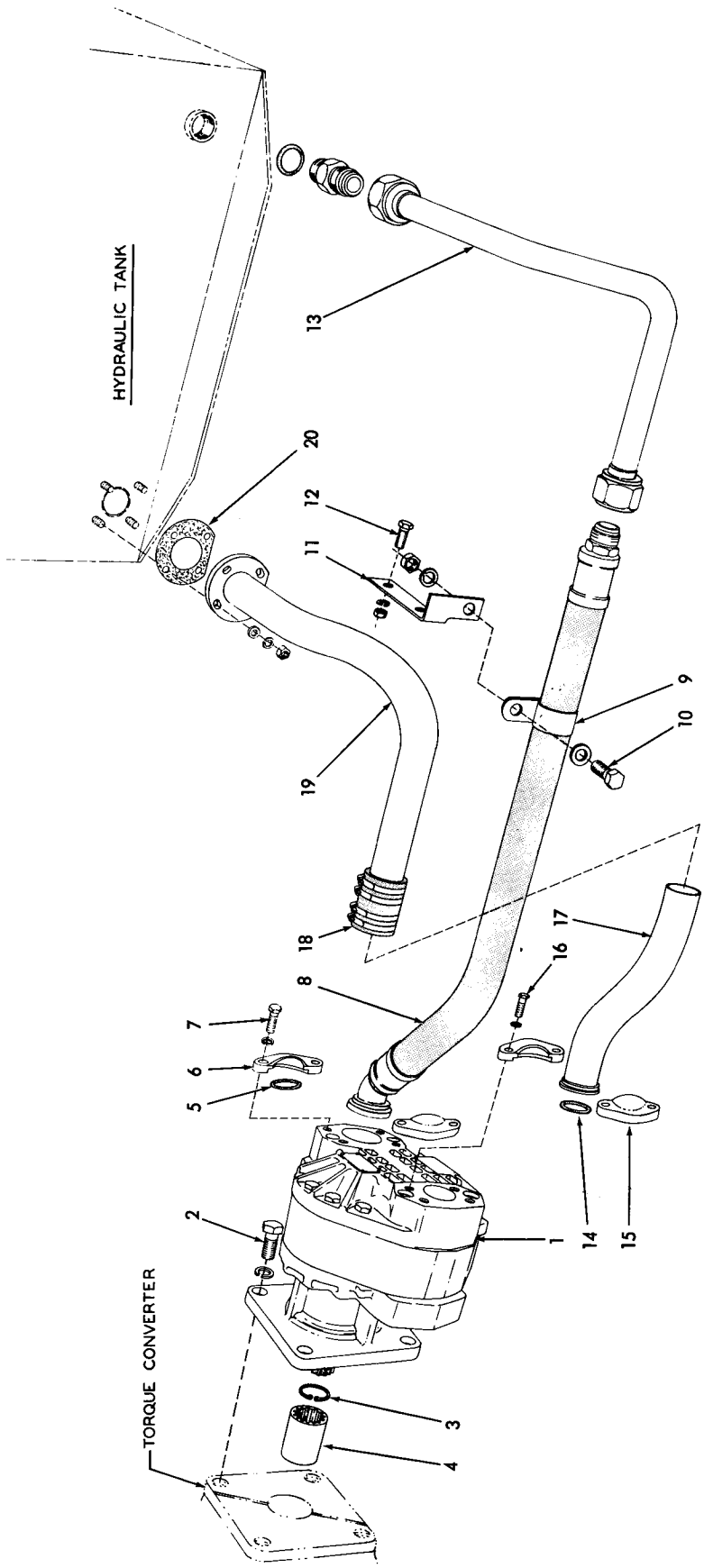
* 626552 CYLINDER ASSEMBLY (Petroleum fluid)
** 648756 CYLINDER ASSEMBLY (Phosphate-ester fluid)

See page 340

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
				NOTE: Quantities indicated are for one (1) cylinder only
1	636550	1	1	CYLINDER ASSEMBLY (Includes items 2 and 3)
	915276	1	1	FITTING, lubricating, 90°, 1/8"NPT
2	3008174	2	2	BUSHING, cylinder pivot
3	626561	2	2	ELBOW, tube connection (Requires welding to install)
4	924780	1	-	□O-RING, cylinder head
	923635	-	1	O-RING, cylinder head
5	3012554	1	1	□RING, back-up, cylinder head o-ring
6	3012756	1	1	HEAD, cylinder
7	3047563	1	-	□PACKING SET, piston rod
	3027559	-	1	PACKING SET, piston rod
8	626553	1	1	□BUSHING, piston rod packing
9	3012753	1	1	PLATE, packing adjustment
10	035814	4	4	□CAPSCREW, drilled-hd., 1/2"NC x 1-3/4"
11	023756	1	1	WIRE, locking, 1/16" x 26"
12	227072	1	-	□SEAL, wiping piston rod
	3027392	-	1	SEAL, wiping piston rod
13	626893	1	1	ROD ASSEMBLY, piston (Includes item 14)
	914465	1	1	FITTING, lubricating, straight, 1/8"NPT
14	3008156	1	1	BUSHING, piston rod
15	3008158	1	1	PISTON, front
16	3008159	2	2	□RING, piston bearing
17	3008160	1	-	□PACKING SET, piston
	3027563	-	1	PACKING SET, piston
18	626896	1	1	PISTON, rear
19	922271	1	1	NUT, piston rod (2"NF)
20	911699	1	1	□PIN, cotter, 3/8" x 3-1/4"
21	626554	1	1	TUBE ASSEMBLY, oil (Includes nuts)
22	3011248	1	1	CLIP, tube supporting
23	035439	1	1	CAPSCREW, 3/8"NC x 1"
	904206	1	1	LOCKWASHER, 3/8"
24	3013194	2	-	REPAIR KIT (Includes parts for one (1) cylinder only; items 4, 5, 7, 8, 10, 12, 16, 17 and 20)(Not illustrated)

□Components of item 24

SHOVEL HYDRAULIC PUMP AND LINES



SHOVEL HYDRAULIC PUMP AND LINES

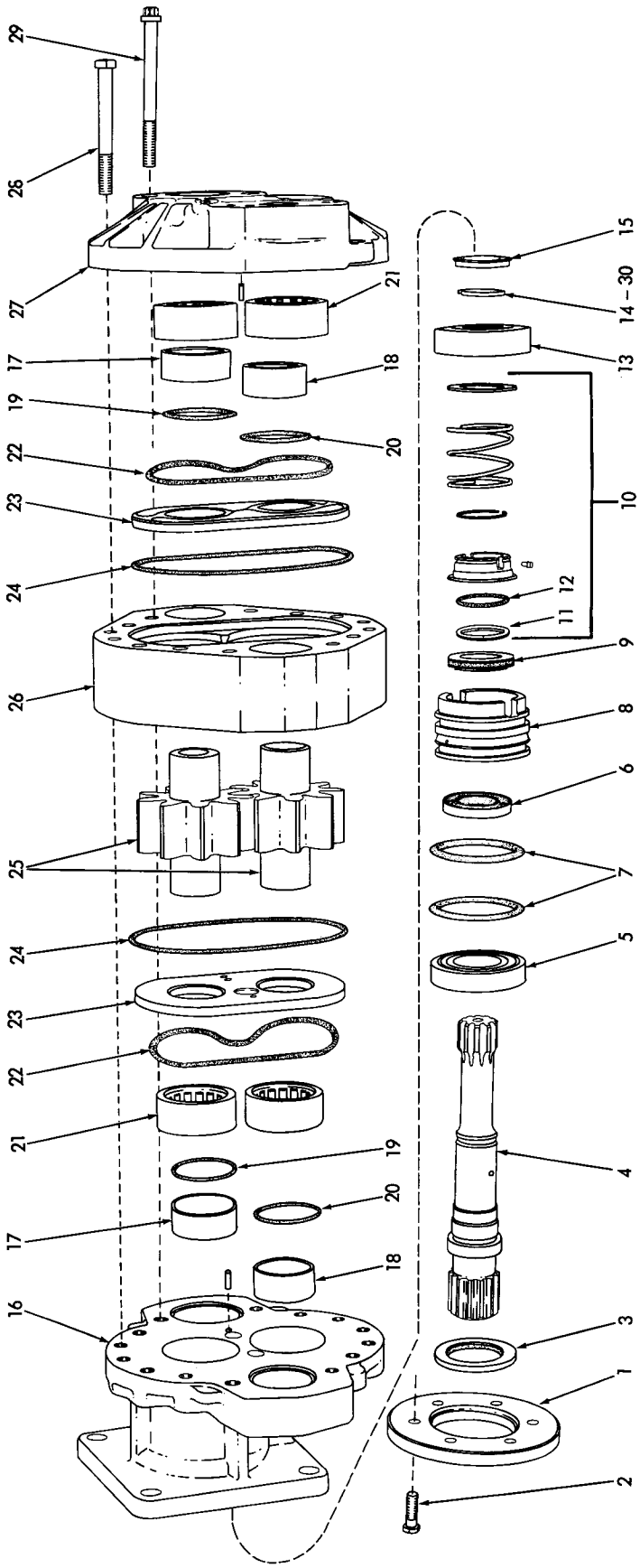
* Units using petroleum fluid
** Units using phosphate-ester fluid

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	662314	1	1	PUMP ASSEMBLY (See page 346 for parts)
2	033291	4	4	CAPSCREW, 3/4"NC x 1-3/4"
	904369	4	4	LOCKWASHER, 3/4"
3	177905	1	1	RING, snap, coupling retaining
4	627793	1	1	COUPLING, splined
5	924193	1	-	O-RING, pressure line hose
	923622	-	1	O-RING, pressure line hose
6	921118	2	2	FLANGE, hose attaching (half only)
7	035190	4	4	CAPSCREW, 1/2"NC x 1-1/2"
	904208	4	4	LOCKWASHER, 1/2"
8	646229	1	-	HOSE, pressure line (See HOSE PARTS)
	663439	-	1	HOSE, pressure line
9	618913	1	1	CLIP, hose supporting
10	070467	1	1	CAPSCREW, 1/2"NF x 1"
	910244	1	1	WASHER, plain, SAE std., 1/2"
	904208	1	1	LOCKWASHER, 1/2"
	911043	1	1	NUT, 1/2"NF
11	635130	1	1	ANGLE, hose supporting
12	036034	2	2	CAPSCREW, 3/8"NF x 1"
	904206	2	2	LOCKWASHER, 3/8"
	911041	2	2	NUT, 3/8"NF
13	635837	1	1	TUBE ASSEMBLY, pressure line (Includes nuts)
	922552	1	-	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread (Includes O-RING 921887)
	924081	-	1	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread (Includes O-RING 923920)
14	924686	1	-	O-RING, return line tube
	923625	-	1	O-RING, return line tube
15	921599	2	2	FLANGE, tube attaching (half only)
16	035236	4	4	CAPSCREW, 1/2"NC x 1-3/4"
	904208	4	4	LOCKWASHER, 1/2"
17	635768	1	1	TUBE, return line, front
18	626266	1	-	HOSE, return line
	648190	-	1	HOSE, return line
	921915	4	4	CLAMP, hose, 2-13/16" to 3-3/4" diam.
19	635791	1	-	TUBE, return line, rear
	911115	4	-	WASHER, plain, SAE std., 3/8"
	904206	4	-	LOCKWASHER, 3/8"
	911026	4	-	NUT, 3/8"NC
20	626513	1	-	GASKET, return line tube

Model 21G only. See page 351 for HYDRAULIC STRAINER substituted on Model 21GS

T-40580

SHOVEL PUMP ASSEMBLY 662314

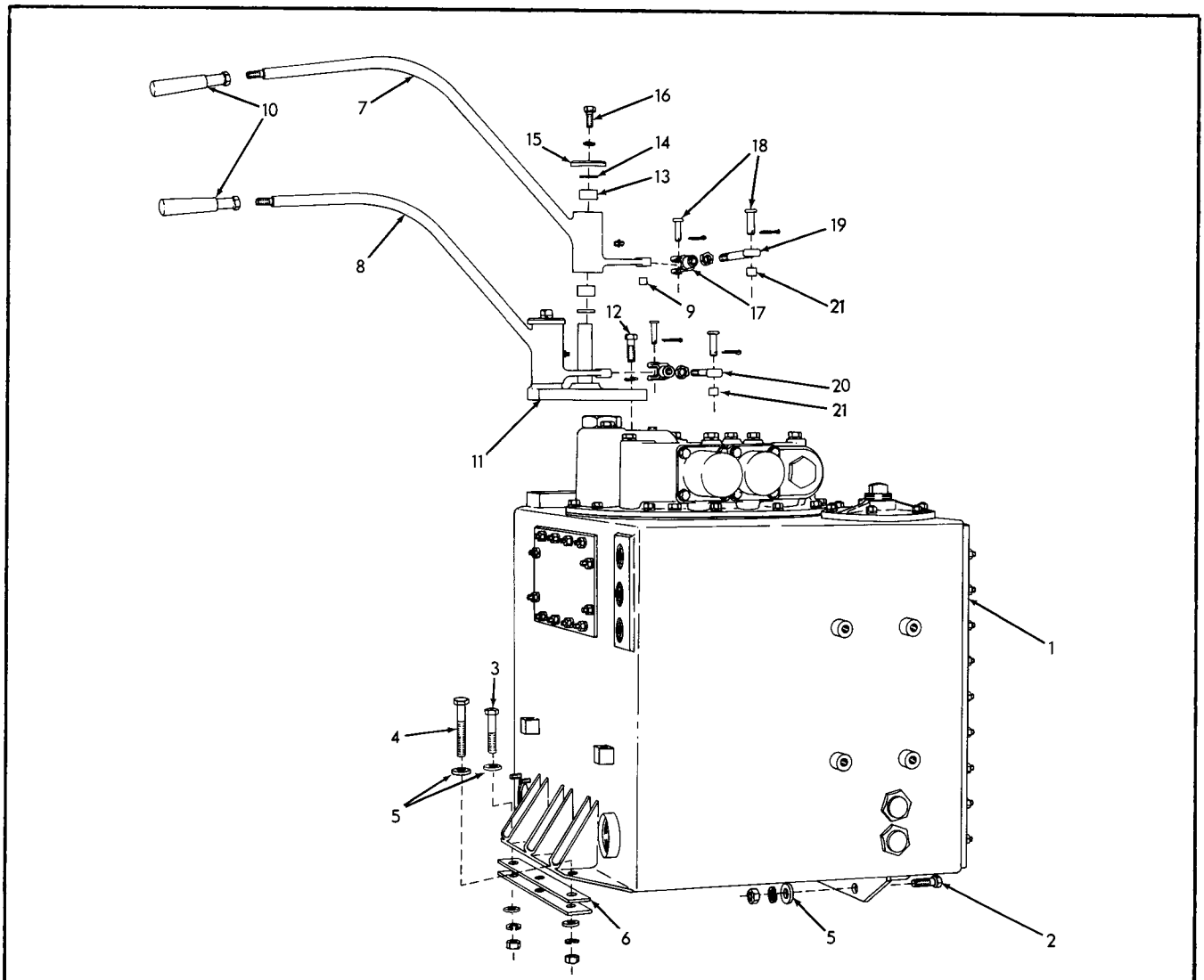


SHOVEL PUMP ASSEMBLY 662314

USAGE: See page 344

ITEM	PART NO.	QTY.	DESCRIPTION
1	3029715	1	FLANGE, bearing retaining
2	3029718	6	CAPSCREW
3	627966	1	□ SEAL, drive shaft
4	635601	1	SHAFT, drive
5	3011952	1	BEARING, ball, outboard
6	635661	1	□ SEAL, oil, outboard bearing
7	662506	2	□ O-RING, bearing retainer
8	3029777	1	RETAINER, drive shaft seal
9	662503	1	□ SEAT ASSEMBLY, drive shaft seal (Includes rubber ring)
10	3029978	1	□ SEAL ASSEMBLY, drive shaft (Serviced only as a unit) (Includes items 11 and 12)
11	925454	1	O-RING, drive shaft seal
12	3012681	1	RING, back-up, seal o-ring
13	3011878	1	BEARING, ball, inboard
14	3029918	1	RING, snap (.126" to .130" wide, green code) — Select one. Also see item 30
	3029919	1	RING, snap (.134" to .138" wide, yellow code)
	3029920	1	RING, snap (.142" to .146" wide, red code)
	3029921	1	RING, snap (.150" to .154" wide, blue code)
	3029922	1	RING, snap (.158" to .162" wide, orange code)
15	3018585	1	WASHER, retaining, drive shaft snap ring
16	649166	1	ADAPTER
	919347	1	PIN, spring, 1/4" x 5/8" (dowel)
17	3013790	2	DOWEL, hollow, suction side
18	3012648	2	DOWEL, hollow, pressure side
19	662505	2	□ O-RING, pump housing, suction side
20	662504	2	□ O-RING, pump housing, pressure side
21	3029771	4	BEARING, roller
22	662507	2	□ O-RING, elongated
23	3029714	2	PLATE, wear
24	662508	2	□ O-RING, pump housing
25	3041566	1	GEAR KIT (Consists of 2 matched gears)
26	3029708	1	HOUSING
27	649171	1	COVER, pump housing
	919347	1	PIN, spring, 1/4" x 5/8" (dowel)
28	919236	10	CAPSCREW, 1/2"NF x 4"
29	649174	4	CAPSCREW, 1/2"NF x 4-1/2"
30	3029778	1	RING SET, snap (Consists of 1 each of snap rings listed under item 14)
31	662466	1	SEAL KIT, pump repair (Consists of items 3, 6, 7, 9, 10, 19, 20, 22 and 24)

□ Components of item 31



T-70598

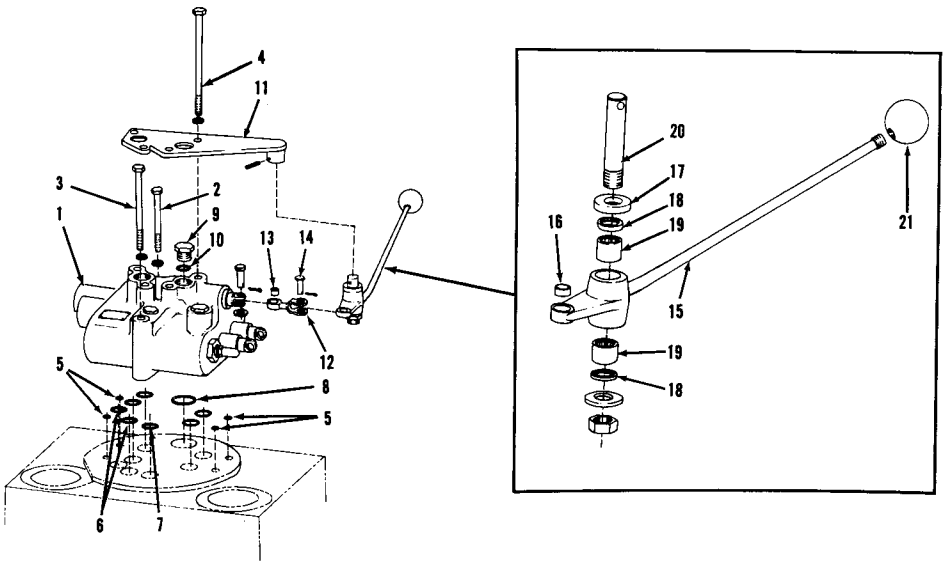
HYDRAULIC TANK AND CONTROLS

ITEM	PART NO.	QTY.	DESCRIPTION
			NOTE: See page 350 for special 3-spool control valve
1	648901	1	TANK AND VALVE ASSY. (Petroleum fluid) } See page 352 for parts
	648701	1	TANK AND VALVE ASSY. (Phosphate-ester fluid) } See page 352 for parts
2	035018	3	CAPSCREW, 1/2"NF x 1-1/2"
3	035068	2	CAPSCREW, 1/2"NF x 2"
4	035068	1	CAPSCREW, 1/2"NF x 2" (Early units)
	916424	1	CAPSCREW, 1/2"NF x 3-1/2"(Late units)
	904208	6	LOCKWASHER, 1/2"
	911043	6	NUT, 1/2"NF
5	064531	8	WASHER, plain
6	626658	2	SPACER, bottom (Use as required)
7	627047	1	LEVER ASSY., dump control (Includes item 9)
	914465	1	FITTING, lubricating, straight, 1/8"NPT

(Continued)

ITEM	PART NO.	QTY.	DESCRIPTION	
8	627048	1	LEVER ASSEMBLY, lift control (Includes item 9)	
	914465	1	FITTING, lubricating, straight, 1/8"NPT	
9	049988	2	BUSHING, control lever	
10	078620	2	GRIP, control lever	
11	635809	1	BRACKET, control lever pivot	Not used with special 3-spool control valve
12	614478	4	CAPSCREW, 1/2"NF x 1-3/8"	
	904208	4	LOCKWASHER, 1/2"	
13	051513	4	BEARING, needle, control lever	
14	053926	4	SEAL, dust, control lever bearing	
15	627051	2	COVER, control shaft pivot	
16	070467	2	CAPSCREW, 1/2"NF x 1"	
	904208	2	LOCKWASHER, 1/2"	
17	068389	2	YOKE, control lever	
18	049993	4	PIN, control linkage	
	900805	4	PIN, cotter, 1/8" x 3/4"	
19	627060	1	EYE-BOLT ASSEMBLY, dump control (Includes item 21)	
	911043	1	NUT, 1/2"NF	
20	627049	1	EYE-BOLT ASSEMBLY, lift control (Includes item 21)	
	911043	1	NUT, 1/2"NF	
21	049988	2	BUSHING, eye-bolt	

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"

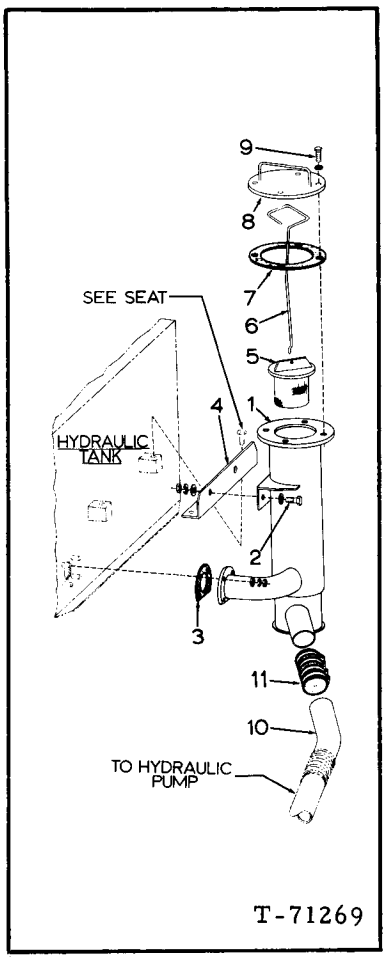


SHOVEL CONTROL VALVE (3-spool) T-71400

USAGE: Optional equipment. Replaces standard 2-spool valve. Provides additional control for auxiliary equipment.

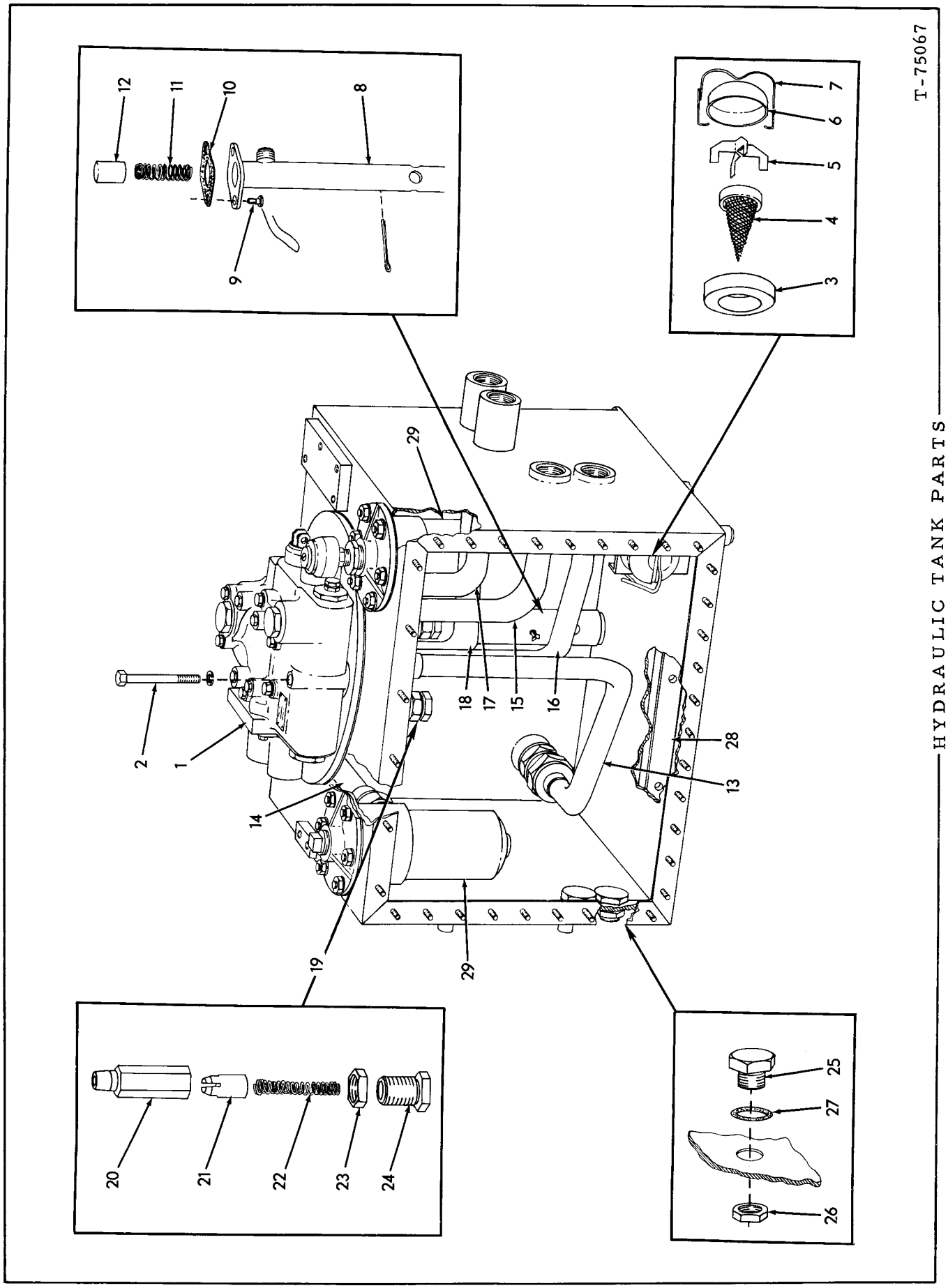
ITEM	PART NO.	QTY.	DESCRIPTION
1	3038118	1	VALVE ASSEMBLY, control (See page 355 for parts)
2	046590	2	CAPSCREW, 1/2"NC x 5-1/4"
3	099637	1	CAPSCREW, 1/2"NC x 6"
4	635824	4	CAPSCREW, 1/2"NC x 8-3/4"
	904208	7	LOCKWASHER, 1/2"
5	923663	4	O-RING, valve mounting (3/8" I. D.)
6	923649	2	O-RING, valve mounting (1-1/4" I. D.)
7	923664	5	O-RING, valve mounting (1-1/2" I. D.)
8	923577	1	O-RING, valve mounting (1-3/4" I. D.)
9	921216	2	PLUG, closure (Includes item 10)
10	921214	2	O-RING, closure plug
11	635621	1	PLATE, mounting, operating lever
12	635663	1	LINK ASSEMBLY, lever connecting (Includes item 13)
13	049988	1	BUSHING, connecting link
14	049993	2	PIN, connecting link
	900806	2	PIN, cotter, 1/8" x 1"
	910244	1	WASHER, plain, SAE std., 1/2"
15	648796	1	LEVER ASSEMBLY, operating (Includes item 16)
16	3013909	1	BUSHING, operating lever
17	3017086	1	WASHER, operating lever
18	052662	2	SEAL, operating lever
19	208253	2	BEARING, needle, operating lever
20	635276	1	SHAFT, operating lever
	916171	1	PIN, roll, 1/4" x 1-1/2"
	910255	1	WASHER, plain, SAE std., 3/4"
	921138	1	NUT, elastic stop, 3/4"NF
21	090020	1	KNOB, operating lever

HYDRAULIC STRAINER



USAGE: Model 21GS

ITEM	PART NO.	QTY.	DESCRIPTION
1	648696	1	HOUSING, strainer
	911115	4	WASHER, plain, SAE std., 3/8"
	904206	4	LOCKWASHER, 3/8"
	911026	4	NUT, 3/8"NC
2	070469	2	CAPSCREW, 1/2"NF x 1-1/4"
	910244	4	WASHER, plain, SAE std., 1/2"
	904208	2	LOCKWASHER, 1/2"
	911043	2	NUT, 1/2"NF
3	626513	1	GASKET, housing
4	648670	1	ANGLE, housing supporting
5	648693	1	STRAINER, oil
6	648686	1	BAIL, strainer retaining
7	648709	1	GASKET, housing cover
8	648669	1	COVER, housing
9	035061	4	CAPSCREW, 1/2"NC x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
10	648698	1	TUBE, oil return line
11	626266	1	HOSE, connecting, oil return tube (Units using petroleum fluid)
	648190	1	HOSE, connecting, oil return tube (Units using phosphate-ester fluid)
	921915	4	CLAMP, hose, 2-13/16" to 3-3/4" diam.


T-75067
HYDRAULIC TANK PARTS
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HYDRAULIC TANK PARTS

* 648901 TANK AND VALVE ASSEMBLY (Petroleum fluid)
** 648701 TANK AND VALVE ASSEMBLY (Phosphate-ester fluid)
See page 348

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
				NOTE: See page 350 for special 3-spool Control Valve
1	3032202	1	-	VALVE ASSEMBLY, control
	648179	-	1	VALVE ASSEMBLY, control
				See page 355 for parts
	919232	5	5	CAPSCREW, 1/2"NC x 4-3/4"
2	046590	2	2	CAPSCREW, 1/2"NC x 5-1/4"
	904208	7	7	LOCKWASHER, 1/2"
3	3011349	1	1	MAGNET, suction line
4	626688	1	-	STRAINER, suction line (Model 21G only)
5	3019303	1	1	SUPPORT, suction line baffle
6	3019231	1	1	BAFFLE, suction line
7	626687	1	1	BAIL, suction line baffle
8	635136	1	1	TUBE, discharge
	910910	1	1	PIN, cotter, 7/32" x 3"
9	011259	2	2	CAPSCREW, drilled-hd., 1/2"NC x 1"
	023633	1	1	WIRE, locking, 1/16" x 12"
10	635138	1	1	GASKET, discharge tube
11	626692	1	1	SPRING, discharge tube
12	626691	1	1	PLUNGER, discharge tube
13	635765	1	1	TUBE ASSEMBLY, main pressure (Includes nuts)
	922552	2	-	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread (Includes O-RING 921887)
	924081	-	2	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread
	923920	-	2	O-RING, connector sealing
14	635759	1	1	TUBE ASSEMBLY, discharge tube to oil filter (Includes nuts)
15	635127	1	1	TUBE ASSEMBLY, dump pressure (Includes nuts)
	922552	2	-	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread (Includes O-RING 921887)
	924081	-	2	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread
	923920	-	2	O-RING, connector sealing
16	635763	1	1	TUBE ASSEMBLY, retract pressure (Includes nuts)
	922552	2	-	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread (Includes O-RING 921887)
	924081	-	2	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread
	923920	-	2	O-RING, connector sealing
17	635762	1	1	TUBE ASSEMBLY, raise pressure (Includes nuts)
	922552	2	-	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread (Includes O-RING 921887)
	924081	-	2	CONNECTOR, flare tube, 1-1/2" tube, 1-7/8" straight thread
	923920	-	2	O-RING, connector sealing

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HYDRAULIC TANK PARTS (Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
18	635761	1	1	TUBE ASSEMBLY, drop pressure (Includes nuts)
	922552	2	-	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread (Includes O-RING 921887)
	924081	-	2	CONNECTOR, flare type, 1-1/2" tube, 1-7/8" straight thread
	923920	-	2	O-RING, connector sealing
19	3020506	3	3	VALVE ASSEMBLY, relief (Consists of items 20 thru 24)
20	3019598	3	3	BODY, relief valve
21	3019977	3	3	PLUNGER ASSEMBLY, relief valve (Includes ball)
22	3016277	3	3	SPRING, relief valve
23	3020521	3	3	NUT, relief valve cap
24	3016278	3	3	CAP, relief valve
25	626672	2	2	PLUG, accessory line hole (Not used when diverter valve is installed)
26	3016394	2	2	NUT, hex
27	924192	2	-	O-RING, accessory hole plug
	923620	-	2	O-RING, accessory hole plug
28	------	-	-	See TANK AND COVERS
29	------	-	-	See FILTER PARTS

CONTROL VALVE PARTS

* 3032202 VALVE ASSEMBLY (2-spool)(See page 352)
** 3038118 VALVE ASSEMBLY (3-spool)(See page 350)
Δ 648179 VALVE ASSEMBLY (2-spool)(See page 352)

ITEM	PART NO.	QUANTITY *	**	Δ	DESCRIPTION
1	------	1	1	1	HOUSING (Not serviced separately. See NOTE below)
2	921204	1	1	-	PLUG, housing (1-1/16" diam.)(Includes item 3)
	924102	-	-	1	PLUG, housing (1-1/16" diam.)
3	921206	1	1	-	O-RING, plug sealing
	649302	-	-	1	O-RING, plug sealing
4	922577	4	2	-	PLUG, housing (9/16" diam.)(Includes item 5)
	924101	-	-	4	PLUG, housing (9/16" diam.)
5	921885	4	2	-	O-RING, plug sealing
	649301	-	-	4	O-RING, plug sealing
6	183890	1	1	1	CAP, valve
7	3041951	1	1	-	VALVE ASSEMBLY, relief } Each consists of items 8 thru 17
	649459	-	-	1	VALVE ASSEMBLY, relief } Each consists of items 8 thru 17
8	------	1	1	1	SLEEVE, relief valve (Not serviced. Order item 7)
9	3027410	1	1	1	RING, snap, relief valve seat
10	------	1	1	1	SEAT, relief valve (Not serviced. Order item 7)
11	3042421	1	1	1	PIN, roll, relief valve seat
12	923562	1	1	-	O-RING, relief valve seat
	649304	-	-	1	O-RING, relief valve seat
13	923564	1	1	-	O-RING, relief valve
	649305	-	-	1	O-RING, relief valve
14	3010857	1	1	1	SPRING, relief valve plunger
15	3027407	1	1	1	WIRE, relief valve plunger
16	3027414	1	1	1	RING, snap, relief valve plunger
17	------	1	1	1	PLUNGER ASSEMBLY, relief valve (Includes ball)(Not serviced. Order item 7)
18	191994	1	1	1	CAP, relief valve
19	3027397	1	1	1	POPPET, relief valve
20	3027401	1	1	1	SPRING, relief valve
21	3027399	1	1	1	SCREW, relief valve adjustment

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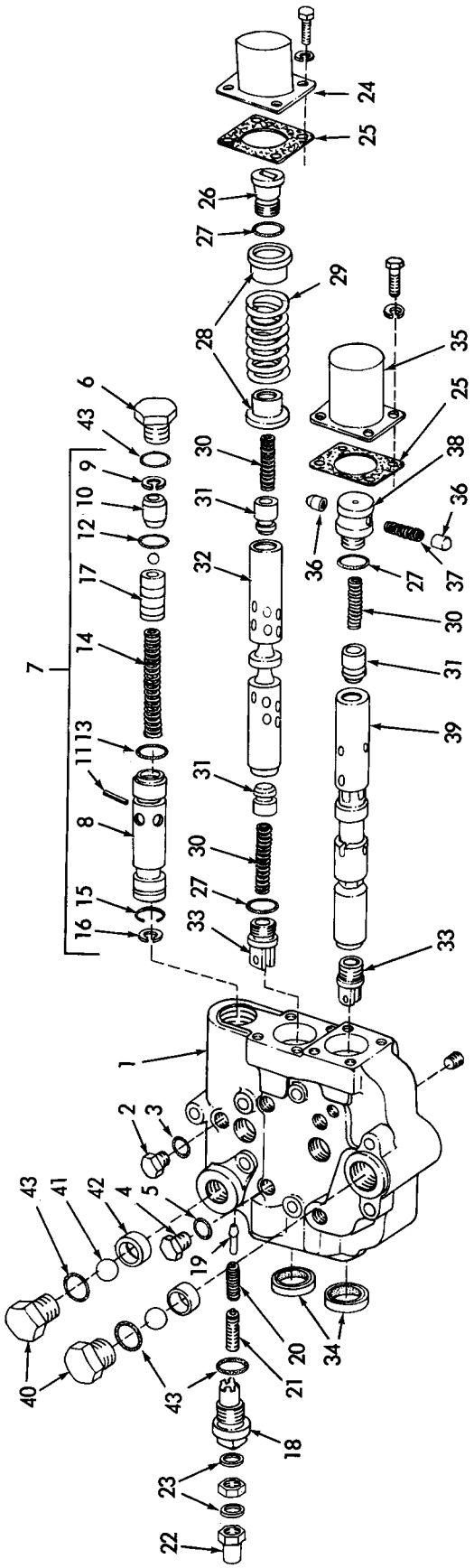


CONTROL VALVE PARTS

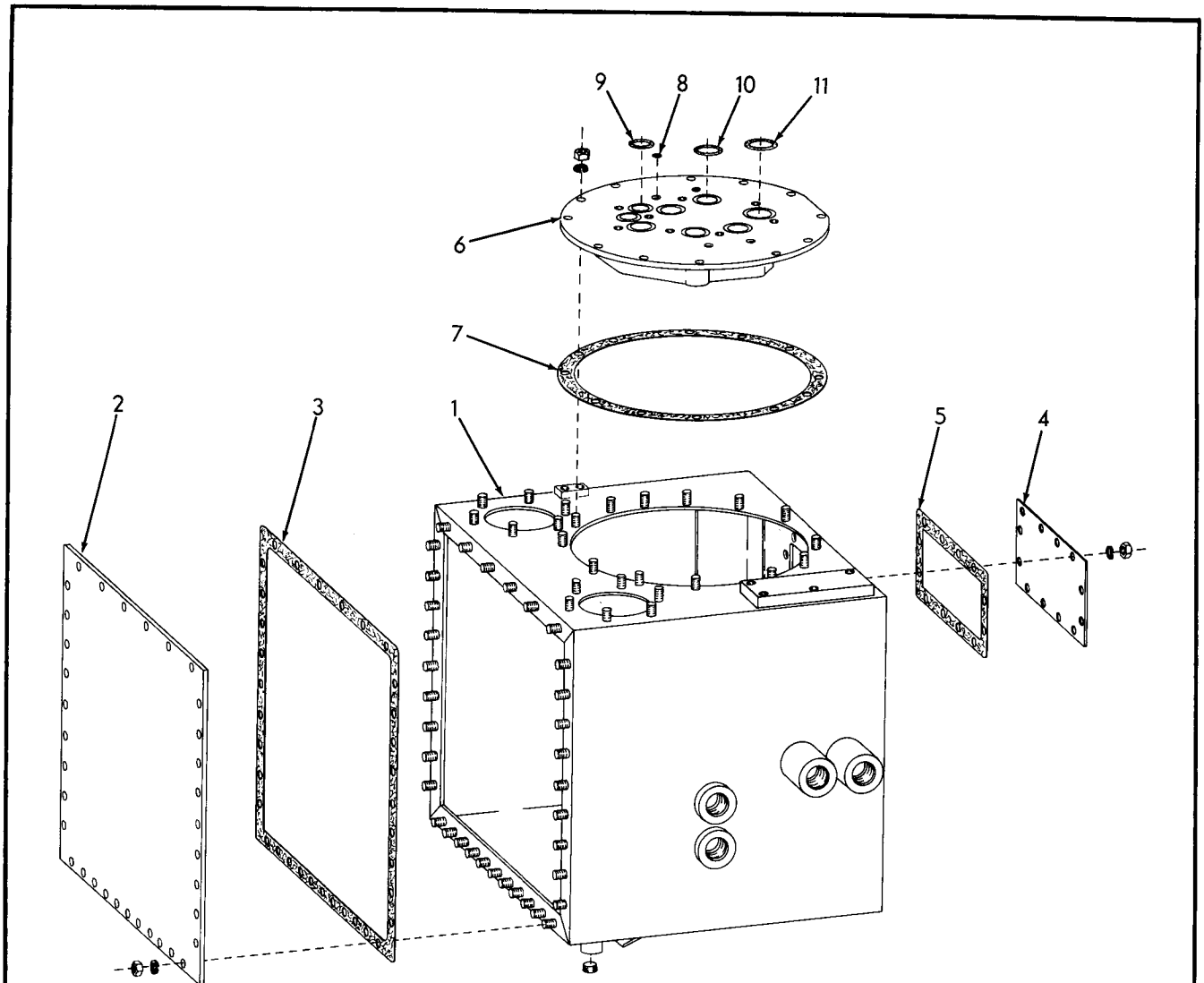
T-41898

CONTROL VALVE PARTS (Continued)

ITEM	PART NO.	QUANTITY *	**	Δ	DESCRIPTION
22	3033939	1	1	1	NUT, acorn, relief valve screw
	913830	1	1	1	NUT, jam, 1/2"NF
23	191995	2	2	2	WASHER, relief valve screw
24	3039015	1	2	1	COVER, operating plunger
	915406	4	8	4	CAPSCREW, 1/4"NC x 3/4"
	904204	4	8	4	LOCKWASHER, 1/4"
25	3038673	2	3	2	GASKET, housing covers
26	184610	1	2	1	CAP, operating plunger
27	3038686	3	5	-	O-RING, operating plunger
	649306	-	-	3	O-RING, operating plunger
28	184604	2	4	2	RETAINER, operating plunger spring
29	3041564	1	2	1	SPRING, return, operating plunger
30	184609	3	5	3	SPRING, check valve plunger
31	3004706	3	5	3	PLUNGER, check valve
32	------	1	2	1	PLUNGER, operating (Not serviced separately. See NOTE below)
33	3004708	2	3	2	EYE, operating plunger
34	3038675	2	3	-	SEAL, oil, operating plunger
	649069	-	-	2	SEAL, oil, operating plunger
35	3038674	1	1	1	HOUSING, detent
	915406	4	4	4	CAPSCREW, 1/4"NC x 3/4"
	904204	4	4	4	LOCKWASHER, 1/4"
36	3016927	2	2	2	PLUNGER, detent
37	3038678	1	1	1	SPRING, detent
38	3038677	1	1	1	CAP, detent, operating plunger
39	------	1	1	1	PLUNGER, operating (Not serviced separately. See NOTE below)
40	3016931	2	2	2	CAP, flow valve
41	3020876	2	2	2	BALL, flow valve
42	3016929	2	2	2	SEAT, flow valve
43	923649	4	4	-	O-RING, valve caps
	649303	-	-	4	O-RING, valve caps

NOTE: Valve housings and plungers are not serviced separately due to the extremely close fit required for satisfactory operation. This can be achieved only by matching and lapping plungers and housings as a unit.

When the plunger clearances become excessive due to normal wear, the valve housings may be returned to the manufacturer for installation of over-size plungers at nominal charge. Consult your local Allis-Chalmers dealer for shipping instructions. Do not return to Allis-Chalmers factory.



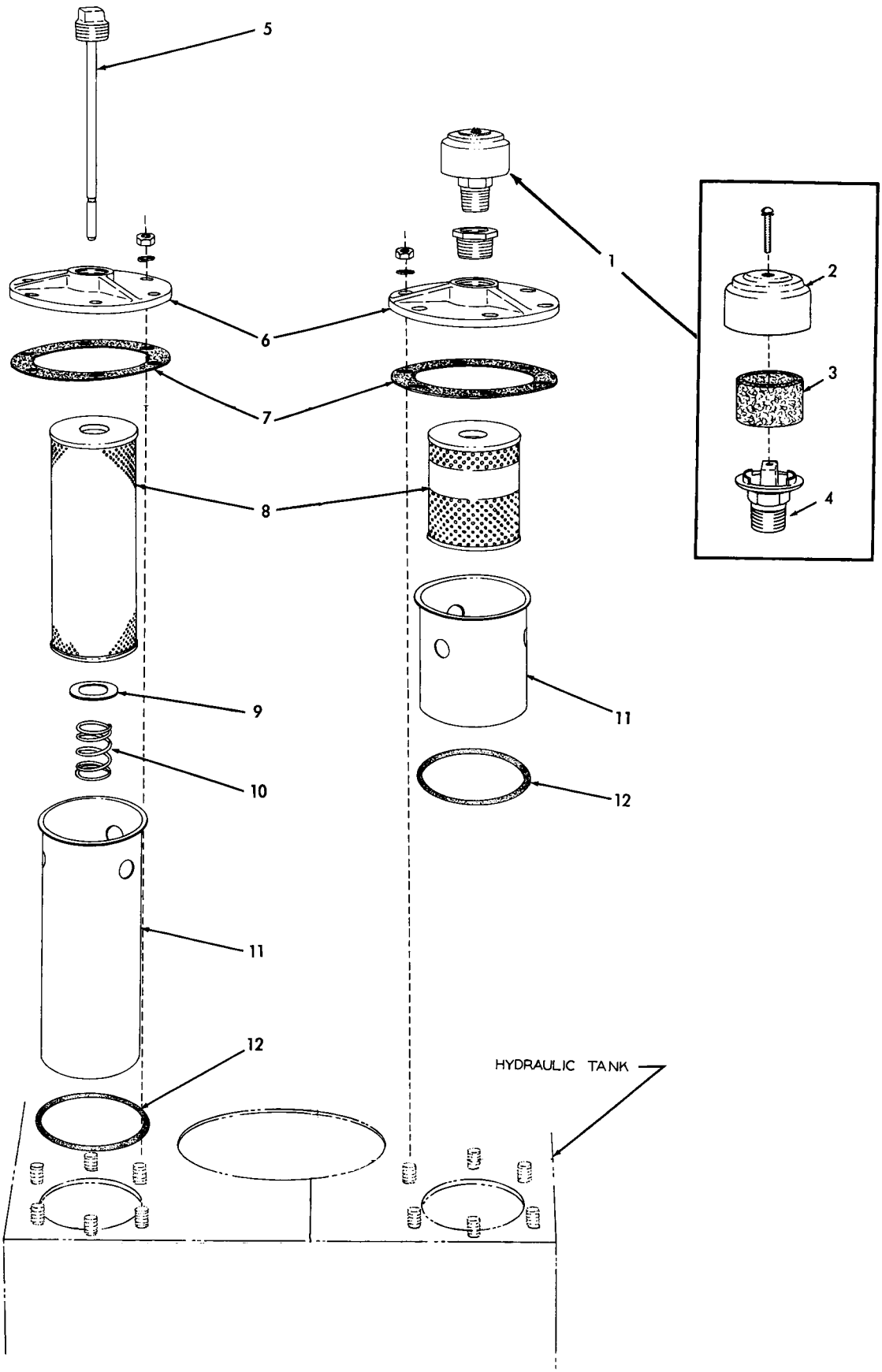
TANK AND COVERS T-39364

* For units using petroleum fluid
** For units using phosphate-ester fluid

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	635200	1	1	TANK, hydraulic (Includes welded studs)
	909091	1	1	PLUG, pipe, hex-socket, 3/4"NPT
2	626670	1	-	COVER, side (Includes grab handle)(Tractors prior to #14577)
	626864	1	1	COVER, side (Tractors #14577 and up)
	904206	35	35	LOCKWASHER, 3/8"
	911026	35	35	NUT, 3/8"NC
3	626671	1	1	GASKET, side cover
4	626676	1	1	COVER, valve inspection
	904206	12	12	LOCKWASHER, 3/8"
	911026	12	12	NUT, 3/8"NC
5	626677	1	1	GASKET, valve inspection cover

(Continued)

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
6	635793	1	1	ADAPTER, valve mounting
	904206	12	12	LOCKWASHER, 3/8"
	911026	12	12	NUT, 3/8"NC
7	626702	1	1	GASKET, valve mounting adapter
8	924091	4	-	O-RING, valve mounting (3/8"O. D.)
	923610	-	4	O-RING, valve mounting (3/8"O. D.)
9	924696	2	-	O-RING, valve mounting (1-1/4"O. D.)
	923618	-	2	O-RING, valve mounting (1-1/4"O. D.)
10	924192	5	-	O-RING, valve mounting (1-1/2"O. D.)
	923620	-	5	O-RING, valve mounting (1-1/2"O. D.)
11	924114	1	-	O-RING, valve mounting (1-3/4"O. D.)
	923621	-	1	O-RING, valve mounting (1-3/4"O. D.)



FILTER PARTS

T-36199

FILTER PARTS

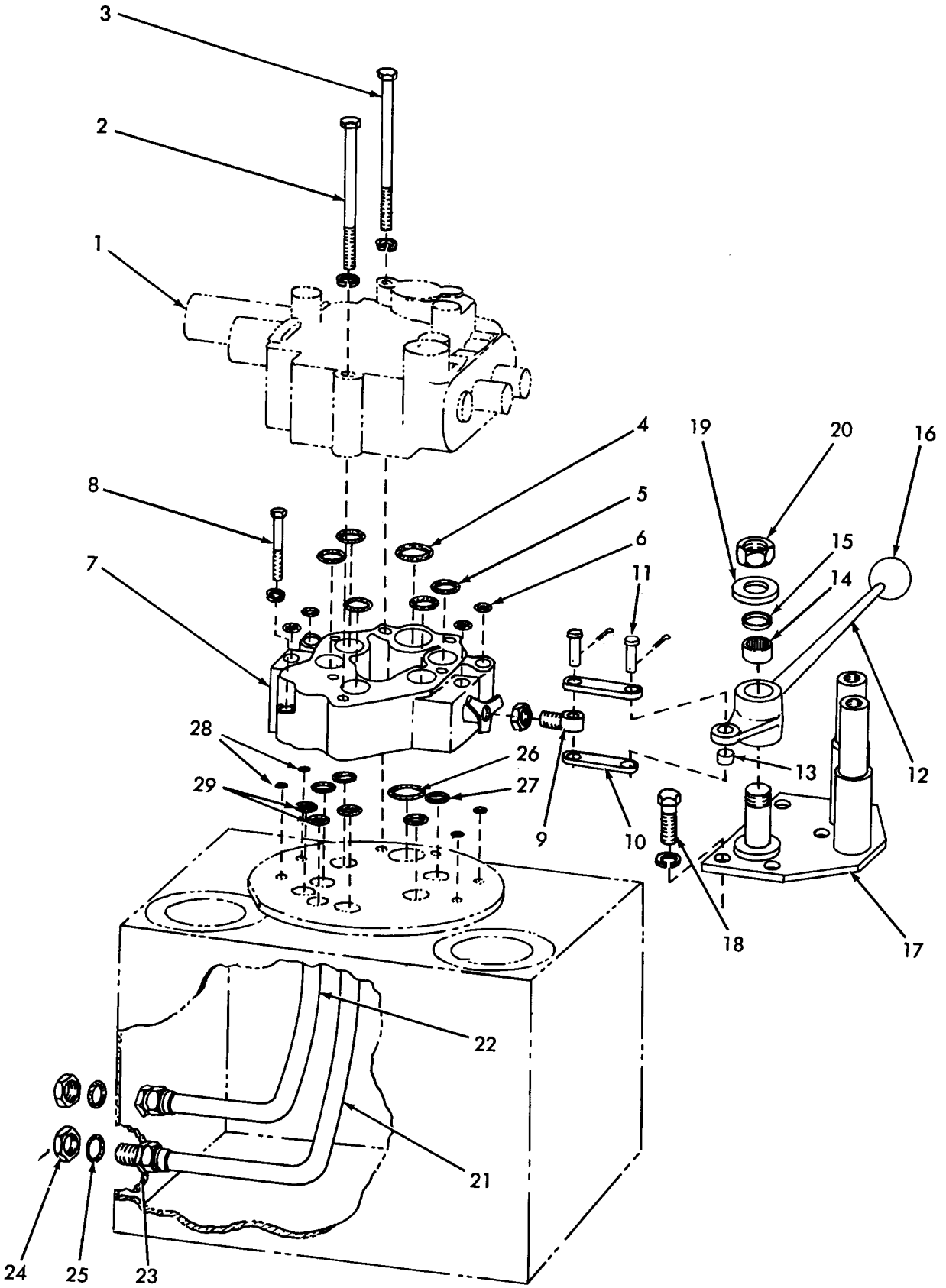
* Air Filter
** Oil Filter

ITEM	PART NO.	QTY. *	QTY. **	DESCRIPTION
1	3002766	1	-	BREATHER ASSEMBLY (Consists of items 2 thru 4)
	901844	1	-	BUSHING, pipe reducing, 1-1/4"NPT to 3/4"NPT
2	3002768	1	-	CAP, breather
	914172	1	-	SCREW, machine, #10-32NF x 1-1/4"
	904203	1	-	LOCKWASHER, #10
3	------	1	-	□ELEMENT, breather (See item 13)
4	3002767	1	-	BASE, breather
5	626701	-	1	DIPSTICK, oil level
6	3019284	1	1	COVER, filter
	904206	6	6	LOCKWASHER, 3/8"
	911026	6	6	NUT, 3/8"NC
7	626685	1	1	□GASKET, filter cover
8	------	1	-	□ELEMENT, air filter
	------	-	1	□ELEMENT, oil filter
9	045143	-	1	WASHER, element retaining
10	3012944	-	1	SPRING, element retaining
11	3010691	1	-	CASE
	3013122	-	1	CASE
12	924929	1	1	O-RING, filter case (Units using petroleum fluid)
	923638	1	1	O-RING, filter case (Units using phosphate-ester fluid)
13	3038306	-	-	ELEMENT KIT, filter and breather (Consists of items 3, 7 and 8) (Not illustrated)

See item 13

□Components of item 13

"ALWAYS GIVE MODEL AND SERIAL NUMBER WHEN ORDERING PARTS"



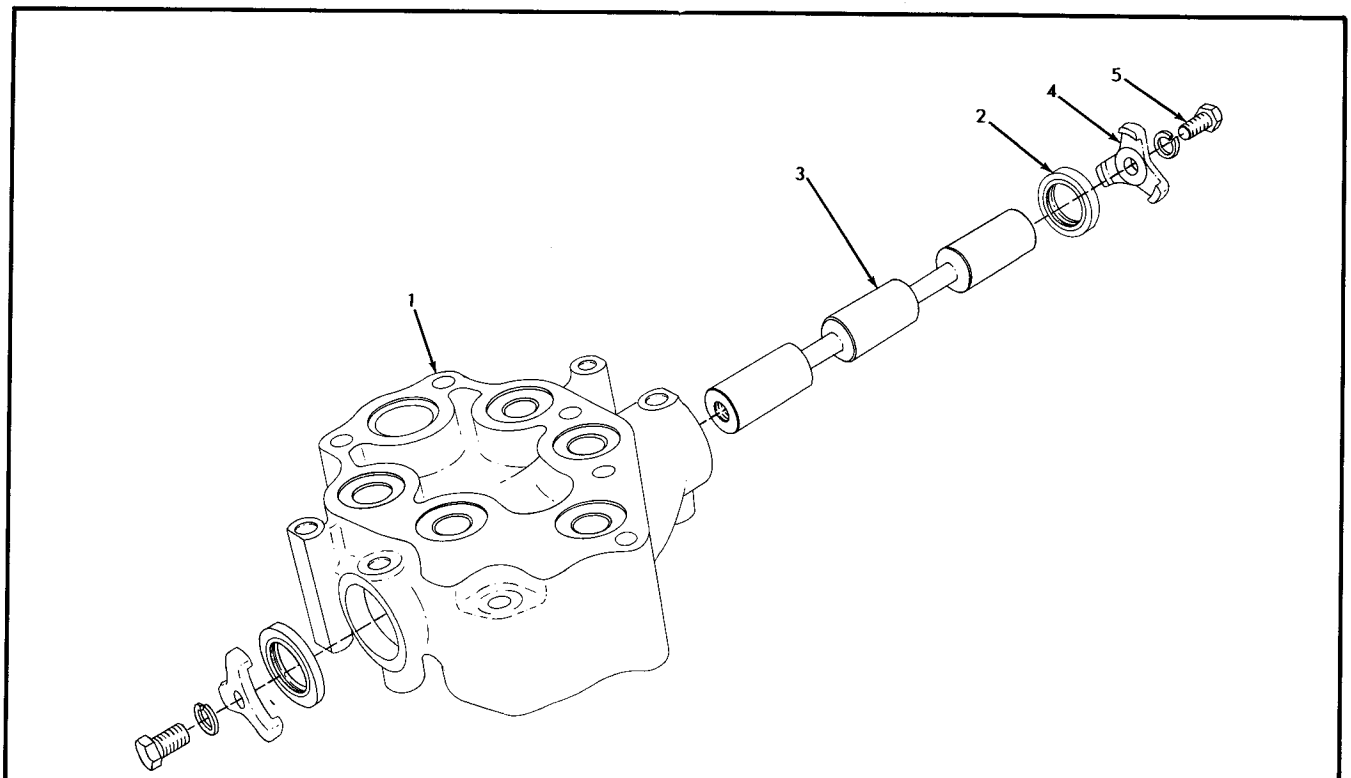
DIVERTER VALVE AND PIPING

T-70599

DIVERTER VALVE AND PIPING

USAGE: Special equipment for Model 21G. Provides rear hydraulic outlet for operating auxiliary equipment.

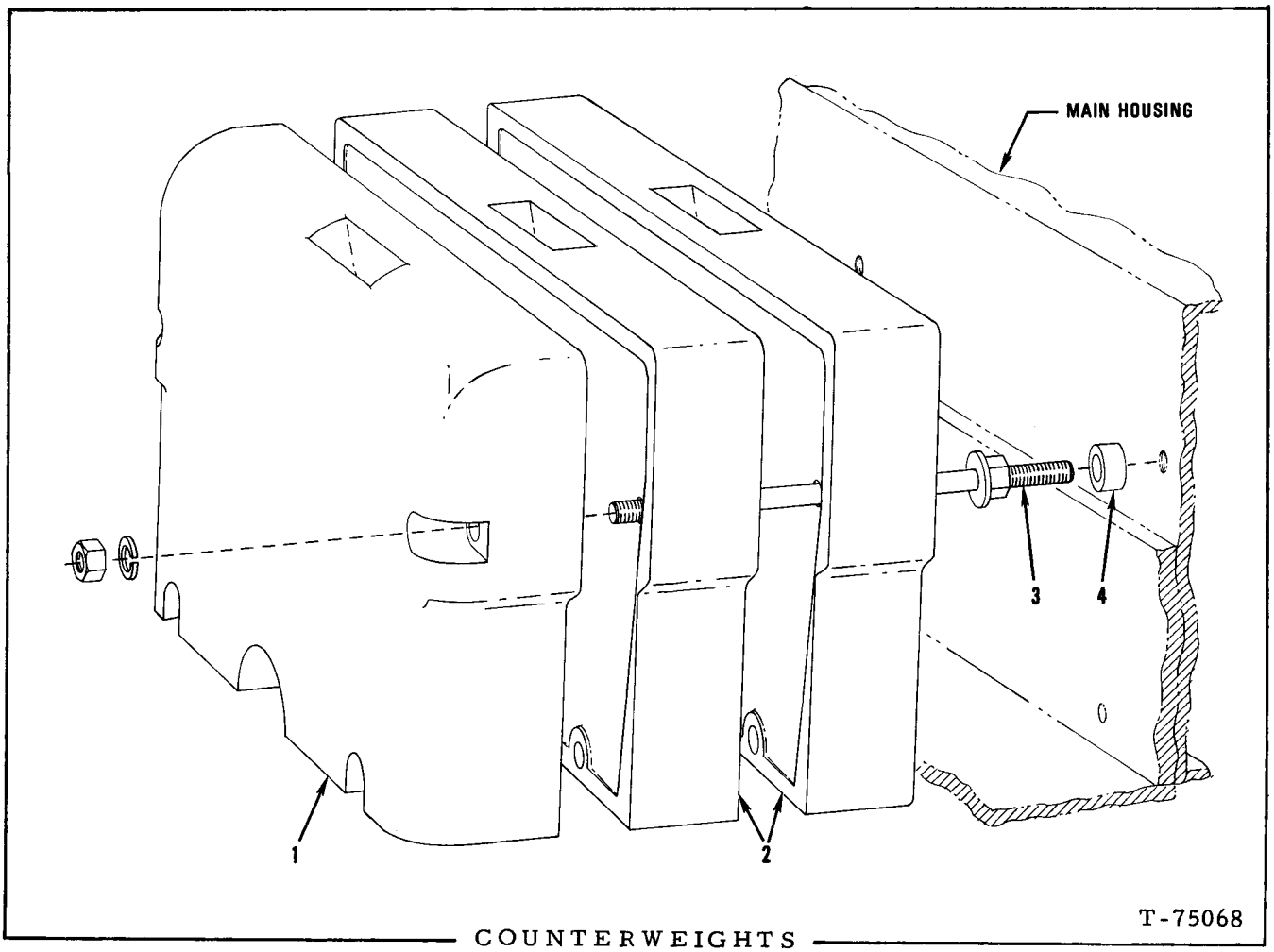
ITEM	PART NO.	QTY.	DESCRIPTION
1	------	1	VALVE ASSEMBLY (See HYDRAULIC TANK)
2	636677	5	CAPSCREW, 1/2"NC x 8-1/4" (Units with standard 2-spool valve)
2	648704	1	STUD, 1/2"NC x 10-1/4" } Units with special 3-spool valve
2	648703	4	STUD, 1/2"NC x 12-3/4" } Units with special 3-spool valve
2	911028	5	NUT, 1/2"NC } Units with special 3-spool valve
3	635824	2	CAPSCREW, 1/2"NC x 8-3/4"
	904208	7	LOCKWASHER, 1/2"
4	924114	1	O-RING, valve mounting (1-3/4" I. D.) } Control valve to Diverter Valve
5	924192	5	O-RING, valve mounting (1-1/2" I. D.) } Control valve to Diverter Valve
6	924091	4	O-RING, valve mounting (3/8" I. D.) } Control valve to Diverter Valve
7	635480	1	VALVE ASSEMBLY, diverter (See page 364 for parts)
8	037431	1	CAPSCREW, 1/2"NC x 4"
	904208	1	LOCKWASHER, 1/2"
9	3023442	1	END, operating plunger
	913830	1	NUT, jam, 1/2"NF
10	636615	2	LINK, operating plunger
11	049993	2	PIN, operating linkage
	900806	2	PIN, cotter, 1/8" x 1"
12	636642	1	LEVER ASSEMBLY, operating (Includes item 13)
13	3013909	1	BUSHING, operating lever
14	208253	2	BEARING, needle, operating lever
15	052662	2	SEAL, operating lever
16	091862	1	KNOB, operating lever
17	636802	1	BRACKET, operating lever (Replaces standard BRACKET 635809)
18	070469	4	CAPSCREW, 1/2"NF x 1-1/4"
	904208	4	LOCKWASHER, 1/2"
19	3017086	1	WASHER, operating lever
20	921138	1	NUT, retaining, operating lever
21	636606	1	TUBE ASSEMBLY, front (Includes nuts)
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread (Includes O-RING 921214)
22	636609	1	TUBE ASSEMBLY. rear (Includes nuts)
	921228	1	CONNECTOR, flare type, 1" tube, 1-5/16" straight thread (Includes O-RING 921214)
23	3016070	2	UNION, bulkhead
24	3016394	2	NUT, hex
25	924192	2	O-RING, bulkhead union



DIVERTER VALVE ASSEMBLY 635480 T-38207

USAGE: See page 362

ITEM	PART NO.	QTY.	DESCRIPTION	
1	------	1	HOUSING, valve (Not serviced separately	
2	3039011	2	SEAL, oil,operating plunger	
3	------	1	PLUNGER, operating (Not serviced separately)	
4	636462	2	STOP, operating plunger	
5	070467	2	CAPSCREW, 1/2"NF x 1"	1 of each discarded when installing
	904208	2	LOCKWASHER, 1/2"	



COUNTERWEIGHTS

USAGE: Special equipment

ITEM	PART NO.	QTY.	DESCRIPTION
1	635342	1	WEIGHT, rear section
2	635341	2	WEIGHT, front section
3	636679	4	STUD, weight attaching
	904210	4	LOCKWASHER, 1-1/4"
	913097	4	NUT, 1-1/4"NF
4	635336	2	SPACER, weight attaching stud

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023618	190,249,259
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